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Soviet Mobile Missile Activity 1 July — 30 September 1984 Summary Report 25 (S)

DEPLOYED STRATEGIC SSM FACILITIES
BE: Various
USSR



Basic Imagery Interpretation Report

Top Secret

RCA-01/0017/84 NOVEMBER 1984 Copy 67

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SOVIET MOBILE MISSILE ACTIVITY 1 JULY – 30 SEPTEMBER 1984 SUMMARY REPORT 25 (S)

PREFACE	
i. This is the 25th in a series of quarterly reports prepared by NPIC on Soviet activities relevant to development and deployment of Soviet offensive mobile missile systems judged to be of strategic interest. (S/WN)	
ii. The report has five substantive sections—Highlights and Late Developments, ICBM Activity, IRBM Activity, SRBM Activity, and Related Activity. The Related Activity section provides information on facilities or unidentified activities which NPIC believes may have a potential mobile missile association. This report also includes an appendix which contains the significant baseline information that NPIC considers most useful for Soviet mobile missile analysis. A list of acronyms and abbreviations also appears in the appendix. (S/WN)	
iii. Information in this report covers the period essentially from 1 July through 30 September 1984.	25X1
	25X1
. Significant activity	25X1
identified after the cutoff date has also been included under Late Developments, in the Highlights and	
Late Developments section. This report updates the preceding summary report:RCA-	25X1
01/0014/84, Soviet Mobile Missile Activity, 1 April – 30 June 1984, Summary Report 24 (S), Aug 84 (TOP	
SECRET CODEWORDS.	25 X 1
iv. Comments and queries regarding this report are welcome. They may be directed to the NPIC	
Mobile Missile Coordinator, or to the contributing analysts	25X1
identified in the appendix. If you would like to change the number of copies you receive or have any	
other questions of distribution, please also call. (C)	

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Highlights and Late Developments

LIDA PLESETSK

LUTSK

KOROSTEN USOVO MOZYR

FROMNY YURYA

SOKAL BELOKOROVICHI
ZHITOMIR

KAPUSTIN YAR

* KANSK

SECRET/WNINTEL

FIGURE 1. LOCATIONS OF SOVIET MOBILE MISSILE ACTIVITY HIGHLIGHTS

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HIGHLIGHTS

1. Highlights of this reporting period are summarized below (Figure 1):

	Paragraph(s)	Figure(s)
1CBMs		
 The tenth, 11th, and 12th launches of the SS-X-25 at Plesetsk were probably from a road-mobile TEL. 	5	
 A second type C single-bay garage was identified under construction in the Missile Handling Facility at Plesetsk. 	6	
 The 13th launch of an SS-X-24 was probably from a rail-TEL. 	9-10	5
 The Soviets continued the effective use of camouflage, concealment, and deception related to the testing of the SS-X-25 and SS-X-24. 	21-24	
 Type C single-bay garages were confirmed at Yurya Mobile Base 6, indicating that it will probably support the SS-X-25. 	27	8
IRBMs		
 The 51st through 56th SS-20 mobile missile bases were identified at Brody, Sokal, Barnaul, Kansk, Usovo, and Belokorovichi, respectively. 	36, 37, 49, 51, 60, 68	
 The nine single-bay garages at Yurya Mobile IRBM Base 3 were dismantled. 	57	16
 The flight test program of the KY-15, the probable follow-on to the SS-20, started at Kapustin Yar. 	79	19
 A new-type TEL and a missile canister dolly probably for the KY-15 were identified at Kapustin Yar. 	85-87	20 & 21
 Modified hardened dome antennas, possibly for communicating with airborne command posts, were at the Romny and Lutsk division command posts. 	43, 48	
 A new type of satellite communications station, designated Type E, was observed at the Mozyr, Romny, and Lida division C3 facilities. 	39-40, 43, 56	
Related Activity		
 Early indications of what may be SS-20 construction were observed at Korosten, Zhitomir, and Kansk. (TSZ) 	116-118	

LATE DEVELOPMENTS

the former Kansk possible SS-20 construction area was confirmed as a new mobile missile base, possibly for the SS-20 IRBM. It has been designated Kansk Mobile Missile Base 4. Tree clearing for at least five probable single-bay garages, two probable multibay garages, and a loop road was identified in a pattern typical of mobile missile base construction. This construction area was

SS-20 equipment consisting of 12 canvas-covered missile support vans and one probable canvas-covered TEL with training canister had arrived in the vehicle maintenance area of Akhtyrka Mobile IRBM Base 2. Construction was continuing throughout the facility. The operations area was in the late stages of construction, with all nine single-bay garages and three four-bay garages externally complete. Open cable trenches remained evident throughout the operations area, and construction materials/equipment remained in front of two of the four-bay garages. The C3 and support areas were both in the late stages of construction. (S/WN)

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Krolevets	
	25X ⁻
• SS-20 equipment had arrived at Krolevets Mobile IRBM Base 2. The equipment, which was located in two areas, consisted of at least ten probable missile support vans and one TEL with	
training canister. The TEL was in the support area.	25X ⁻ 25X ⁻
Construction was continuing throughout the facility. In the operations area, all nine single-bay garages and all three four-bay garages were externally complete. However, modifications to the missile-ready bunker were not complete, and paving blocks had not been installed at one of the major intersections within the area. Construction throughout the rest of the base was in the late stages. (S/WN	25X
Yurya	
The SS-20 single-bay garages at Mobile IRBM Base 1 were being dismantled.	25X ²
one single-bay garage had been completely dismantled, and a second garage had	25X
been partially dismantled. This is the second of the five operational SS-20 bases in the Yurya complex at which single-bay garages have been dismantled.	25X ⁻
garages at Mobile IRBM Base 3 were dismantled. (S/WN)	25X′
Glazov	
Efforts to further conceal stored single-bay garage components were observed at Glazov Missile	
Support Rear Depot At least five supports and one and possibly two new canvas covers were placed across the stockpiled garage components (Figure I D-1)	25X′
	25X 25A I
	25X
- 2	25X′

Intercontinental Ballistic Missile Activity

PLESETSK

PAVLOGRAD

SUROVATIKHA YURYA TAMBOV YOSHKAR-OLA

KAMENSK-SHAKHTINSKIY

SECRET/WNINTEL

FIGURE 2. LOCATIONS OF SOVIET MOBILE ICBM-ASSOCIATED FACILITIES

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INTERCONTINENTAL BALLISTIC MISSILE ACTIVITY

Introduction

2. This section of the report addresses activity related to the development, deployment, and production of mobile intercontinental ballistic missiles (Figure 2). Discussion covers the identification of type C single-bay garages at Yurya Mobile Missile Base 6; continued construction of the mobile missile base at Yoshkar-Ola; additional analysis of the possible rail-TEL for the SS-X-24; the fourth launch of an SS-X-24 probably from a rail-TEL; and an update of the continued expansion of the two probable ICBM-associated solid motor production facilities at Kamensk-Shakhtinskiy and Pavlograd. (S/WN)

Development and Testing

Plesetsk MSTC

3. Mobile Missile-Associated Facilities. All four mobile ICBM bases at Plesetsk (MOB 1, MOB 2, LTS 5, and LTS 6; Figure 3) and all 42 of the launch reference positions (LRPs) were observed at least once. Canvas-covered probable azimuth alignment devices (AADs) were occasionally detected in some of the LRPs. In general, all four mobile missile-associated bases continued to be occupied as evident from the occasional observation of personnel, vehicle tracks, and facility maintenance. In addition, both the complex driver/dispersal training area near LTS 16 and the one near MOB 1 were used during the quarter. However, no mobile missile-associated vehicles were identified in either of these areas. (S/WN)

4. **Mobile Missile Base 2.** The probable C3 upgrading that has been in progress since March continued, and at the end of the reporting period, the south side of the the base command post bunker was still exposed. This activity parallels that seen at the four Plesetsk SS-16 bases prior to their conversion from older ICBM systems. The upgrading may be preparing MOB 2 to support SS-X-25 operations, or it may be related to an overall SRF C3 upgrading program. If either is the case, similar activity should also be observed at the other three SS-16 bases. (S/WN)

LTS 23 (Table 1). No prelaunch activity was observed before the 26 July launch of an SS-X-25 from Plesetsk (DEFSMAC S/DQ/664-84 [S]). On the silos at LTS 23 and collocated LTS 24 were both open. Both silos have been open after previous probable mobile tests of the SS-X-25.

5. SS-X-25 Activity. The tenth, 11th, and 12th

tests of SS-X-25 ICBMs were probably from a TEL at

served at LTS 24. A camouflaged probable TEL and a large camouflaged vehicle were on site, and the silo door was open. The probable TEL was on the silo apron next to a probable test-range version of an azimuth alignment device.

The other camouflaged vehicle was at the intersection of the site access road and silo apron. No vehicles were observed at the collocated Plesetsk ICBM Launch Test Site 23, where the silo door was closed. On 10 September, DEFSMAC reported the launch of an SS-X-25 from Plesetsk at 1330Z (DEFSMAC). No evidence of the launch was

observed approximately 20 hours and 30 minutes after the launch. On 2 October, DEFSMAC reported the unsuccessful test of an SS-X-25 from Plesetsk

No prelaunch activity was identified, and no postlaunch imagery has been acquired. It should be noted that because of effective CC&D practices, the TEL for the SS-X-25 still has not been identified at Plesetsk. (TSR)

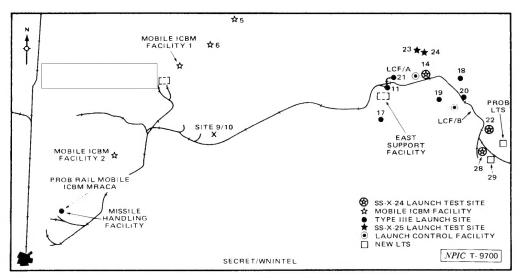


FIGURE 3. PLESETSK MISSILE AND SPACE TEST CENTER SSM

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Launch Date*	Launch Site (mode) **	Remarks*
8 Feb 83 * *	LTS 23 (silo)	Success
5 May 83	LTS 23 (silo)	Success
31 May 83	LTS 23 (silo)	Success
10 Aug 83	LTS 23 (TEL)	Failure
25 Oct 83	LTS 23 (TEL)	Success
19 Feb 84	LTS 23 (TEL)	Success
26 Mar 84	LTS 23 (TEL)	Success
23 Apr 84	LTS 23 (TEL)	Success
23 May 84	LTS 23 (TEL)	Success***
26 Jul 84	Prob LTS 23 (TEL)+	Success
10 Sep 84	LTS 24 (TEL)+	Success
2 Oct 84	Prob LTS 23/24 (TEL)+	Failure

[&]quot; " First reduced range test

*No prelaunch activity or any direct evidence of the launch was identified

This table is SECRET WNINTEL.

- 6. Plesetsk Missile Handling Facility. Modification/construction in the modified SS-16/SS-X-25 receiving/inspection/checkout area in support of the SS-X-25 has increased. Construction of a second type C single-bay garage and a second 18-meter-deep, nine-bay garage was identified east of the rail line. When these structures are completed, the following buildings will have been constructed east of the rail line in support of the SS-X-25:
 - two type C single-bay garages;
 - two 18-meter-deep, nine-bay garages;
 - one missile-/payload-associated clerestory building;
 - one three-bay garage;

- one four-bay garage;
- one fourth-generation calibration building;
- one two-bay, 18-meter-deep, open-sided shed; and
- · one single-bay, drive-through building.

The numbers and types of buildings being constructed in this area indicate that the area east of the rail line will support the SS-X-25 ICBM as the battalion-sized crew training area at Kapustin Yar Bivouac/Troop Training Area supports the SS-20 IRBM. In addition, wall stanchions for the new probable clerestory building in the northwest section of the facility were installed. This building will probably have low-bay outer sections that are 42 by 12 by 8 meters and a high-bay center section about 42 by 20 meters (height undetermined). No road-mobile ICBM equipment has been identified in this facility, and no payload-associated crates were observed during the quarter. (S/WN)

7. Plesetsk Complex Driver/Dispersal Training Area (previously reported as the complex DDTA near LTS 16). Construction of a new GSE parking/maintenance area continued throughout the reporting period at this double-fence-secured facility. Two quonset-like buildings were completed, a third was under construction, and a type C garage was constructed between the two quonset-like buildings. Sufficient space to build another type C SBG exists between the inner completed quonset-like building and the quonset-like building under construction.

new GSE parking/maintenance area and the driver/dispersal training area will probably support SS-X-25 field training exercises. (S/WN)

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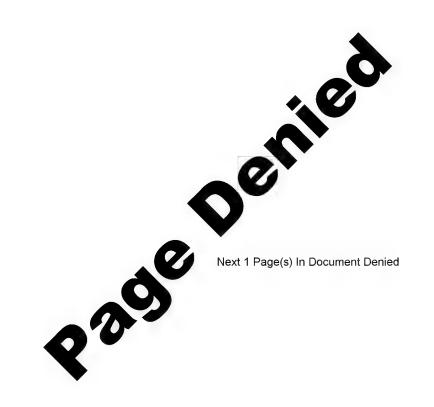
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(Continued p. 8)

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15. At the rail-served section of Plesetsk Launch Control Facility (LCF) B, no missile- or C3-associated railcars were identified.

a swath was being cleared through the trees south of the 102-meter-long, rail-in shed toward the rail-mobile SS-X-24 launch test facility at LTS 28. The trees were being cleared in a line without regard for the hilly terrain or streams.

The unsecured section of the facility continued to be used as a temporary rail-transloading area for construction material delivered by rail for the modified Type IIIX LCF section of the facility. (S/WN)

- 16. Rail-Mobile SS-X-24 Missile Receiving and Checkout Area (MRACA). Construction of the rail-mobile SS-X-24 MRACA continued. Activity identified during the reporting period included the continuing construction of a large, probably rail-served building with a possible rail-through shed at its entrance; the near completion of a probable support building just north of the new large rail-served building; the near completion of a 102-meter-long, rail-in shed near the new building; new, unidentified construction just southwest of the rail-mobile MRACA (but outside the security fence). (S/WN)
- 17. **East Support Facility.** Most construction at the new RTP area continued at a moderate pace; however, no new rail sections were installed in the spur that extends toward the main east-west complex road. It has not been determined if this spur will be a rail-turning wye or another rail-served facility. Rail sections and rail line components were still in the RTP area at the end of the reporting period. (5/WN)
- 18. Rail Line Construction at Plesetsk. Construction of the new section along the eastern extension of the main complex rail line continued slowly. It still cannot be determined whether this new spur will be a rail siding or the start of another major rail spur at the eastern end of the rangehead. Construction of the rail-to-road transloading point just outside LTS_28 progressed slowly. During July, a rail stop was installed about 0.25 nm southwest of the site, indicating that the eastern rail line extension will not be extended past its current terminus at this time. At the end of the reporting period, the only structure still under construction was the transloading dock. (S/WN)
- 19. Possible Rail-Mobile ICBM-Associated Activity. At the rail-turning wye approximately 1 nm south-southeast of the Missile Handling Facility, reconstruction of the rail bed and installation of the rail line was completed. No additional grading/leveling or construction activities were identified. The function of this area has not been determined. (S/WN)
- 20. Construction of the new rail-served area north of the SS-13 receiving, inspection, and checkout area continued. The new building will have two rail-through bays (each 84 by 9 by 9 meters) and a probable administration/support

bay Also, the rail line was extended into the new area from the spur that originally terminated next to the SS-13 interim missile storage building. The function of this area has not been determined, but it probably is not being constructed to support SS-13 operations. (S/WN)

21. CC&D Activity. The Soviets continued the effective use of CC&D techniques at Plesetsk. Although 13 tests of the SS-X-24 and 11 tests of the SS-X-25 have been conducted, neither missile canister has been observed (Table 3). Moreover, even though four probable tests of the rail-mobile variant of the SS-X-24 and seven tests of the roadmobile version of the SS-X-25 have been conducted, no system-unique equipment-including a road- or rail-mobile TEL-has been confidently identified. We believe the lack of mobile missile signatures is the direct result of Soviet concealment practices such as positioning mobile SS-X-25 equipment in buildings and under camouflage material suspended from poles, parking rail-mobile SS-X-24 equipment in rail sheds and buildings, and possibly designing and covering a rail-TEL for the SS-X-24 so that it is nearly indistinguishable from other rollingstock. (TSR)

Table 3.

Ballistic Missile Canister Identification Summary

Missile System	First Flight Test	First Canister Identified	Location
SS-16	Mar 72	Jul 72	Plesetsk MSTC MHF and LTS 5
SS-17	Sep 72	Aug 72*	Tyuratam MTC LTS V1 (then LTS S6)
SS-18	Oct 72	May 73**	Tyuratam MTC LTS R8 and LTS R11
SS-19	Apr 73	Apr 73	Tyuratam MTC LTS G5/6
SS 20	Sep 74	Sep 74	Kapustin Yar MTC Cmplx C Site 1
SS-X-24	Oct 82	None yet	
SS-X-25	Feb 83	None vet	

^{*}This canister was observed during the probable initial loading of this silo about a month before the first flight test of an SS-17

This table is SECRET/WNINTEL.

22. The Soviet practice of building structures at launch test facilities—sliding-roof garages and rail-in sheds, for example—in which to house mobile launchers has severely hampered the identification of mobile launchers during flight test programs. The reasons for building these types of structures at launch test sites probably include simulating deployed conditions, providing environmental protection, and implementing CC&D practices. For the road-mobile SS-X-25, the type C single-bay garage at LTS 23 probably simulates the operational, ingarrison environment for the SS-X-25 TEL and contributes to decreasing the likelihood of observing the SS-X-25 TEL. Moreover, this onsite single-bay garage allows the Soviets to bring

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^{**}At least a section of this missile canister was identified during April 1972 at Tyuratam MTC LTS H1/2 during the popup/LAD test phase of the flight test program. Although the identification at that time was tentative, the lack of confidence in the identification was due to poor image interpretability, not Soviet CC&D practices.

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		25X1
a loaded TEL to the test site well before a launch	vents. In the C3 area, the ten-bay garage and the	
Similar	C3 building were in the late stages of construction. A roof-mounted antenna array, similar to those	25X1 20 X
considerations probably also led to the construc-	seen at mobile SS-20 regimental C3 facilities, was	
tion of seven partially or fully enclosed rail sheds for the rail-mobile SS-X-24. One shed is 45 meters	under construction on the C3 building. No other antennas were visible. (S/WN)	
long, fully enclosed (except for the ends), and		
located on a spur that leads directly into the rail-	26. at the Yoshkar-Ola ICBM	25X1
mobile missile receiving and checkout building.	Division Command Post Bunker, a small personnel bunker was being uncovered and will probably be	25X1
	removed, possibly in preparation for the construc-	25/
The six	tion of new antennas. (S/WN)	25X1
remaining sheds—five 102 meters long and one	Yurya SSM Complex	25/1
300 meters long—are partially enclosed and situat-	rurya 55141 Complex	
ed either in a launch-related area or in an area to provide temporary cover for many railcars. The six	27. Mobile Missile Base 6. At Yurya Mobile	
partially enclosed sheds are all 6 meters high, and	Missile Base 6 (formerly LP 11), new mobile missile-associated construction continued.	25X1
the top 3 meters on each side have been covered,	foundations for six type C single-bay	25X1 25X1
like the roof, with thin prefabricated sections. This	garages could be confirmed, and clearings proba-	25X1
	bly for three more had been identified (Figure 8). Three seven-bay garages were in a late stage of	25/(1
(S/WN)	construction, and modifications were continuing	
	on the west missile-ready bunker. Vents have already been installed on the east missile-ready	25X1
	bunker. Tree clearing for a fenceline behind the	
	missile-ready bunkers indicated that the missile-	
	ready bunkers will be included within the opera- tions area, unlike those at the Yoshkar-Ola Mobile	
	Base, where a fenceline separates the operations	
	area from the former missile-ready bunkers. (S/WN	25X1
		23/1
24. the possible rail-TEL has	Production	25X1
been imaged		25X1
		25 X 1
the railcar identified as a possible rail-TEL could	I	
not be confirmed (Figure 5). (S/WN)	Control k	
Deployment		
. ,		
	Kamensk-Shakhtinskiy	
÷	and the second s	
• •	28. The large fabrication-type building was	
• • ,	nearly complete externally, and a probable rail spur to serve the building was under construction	
• * .	nearly complete externally, and a probable rail spur to serve the building was under construction at Kamensk-Shakhtinskiy Solid Motor Production	
• • .	nearly complete externally, and a probable rail spur to serve the building was under construction at Kamensk-Shakhtinskiy Solid Motor Production Plant. Ground preparations for two new buildings	
Yoshkar-Ola SSM Complex	nearly complete externally, and a probable rail spur to serve the building was under construction at Kamensk-Shakhtinskiy Solid Motor Production Plant. Ground preparations for two new buildings and a new roadway were also in progress. No additional construction occurred on the possible	
Yoshkar-Ola SSM Complex	nearly complete externally, and a probable rail spur to serve the building was under construction at Kamensk-Shakhtinskiy Solid Motor Production Plant. Ground preparations for two new buildings and a new roadway were also in progress. No	
25. Mobile Missile Base 1. Construction con-	nearly complete externally, and a probable rail spur to serve the building was under construction at Kamensk-Shakhtinskiy Solid Motor Production Plant. Ground preparations for two new buildings and a new roadway were also in progress. No additional construction occurred on the possible	
25. Mobile Missile Base 1. Construction continued at this base, which is probably intended for deployment of the SS-X-25 mobile ICBM.	nearly complete externally, and a probable rail spur to serve the building was under construction at Kamensk-Shakhtinskiy Solid Motor Production Plant. Ground preparations for two new buildings and a new roadway were also in progress. No additional construction occurred on the possible bay-charger line. (S/WN) Pavlograd 29. At Pavlograd Solid Motor Production	25 X1
25. Mobile Missile Base 1. Construction continued at this base, which is probably intended for deployment of the SS-X-25 mobile ICBM. single-bay garage components had arrived	nearly complete externally, and a probable rail spur to serve the building was under construction at Kamensk-Shakhtinskiy Solid Motor Production Plant. Ground preparations for two new buildings and a new roadway were also in progress. No additional construction occurred on the possible bay-charger line. (S/WN) Pavlograd 29. At Pavlograd Solid Motor Production Plant, construction on both the large fabrication	
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25. Mobile Missile Base 1. Construction continued at this base, which is probably intended for deployment of the SS-X-25 mobile ICBM. single-bay garage components had arrived and were positioned near four of the type C single-bay garage foundations. Three additional type C garage foundations were identified, and it	nearly complete externally, and a probable rail spur to serve the building was under construction at Kamensk-Shakhtinskiy Solid Motor Production Plant. Ground preparations for two new buildings and a new roadway were also in progress. No additional construction occurred on the possible bay-charger line. (S/WN) Pavlograd 29. At Pavlograd Solid Motor Production Plant, construction on both the large fabrication building and the new three-bay building continued. Construction on a rail spur to the new fabrication building and a new bay-charger line	
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25. Mobile Missile Base 1. Construction continued at this base, which is probably intended for deployment of the SS-X-25 mobile ICBM. single-bay garage components had arrived and were positioned near four of the type C single-bay garage foundations. Three additional type C garage foundations were identified, and it now appears that at least nine SBGs will be constructed (Figure 7). two of the seven-bay garages (previously reported as eight-bay garages) were externally complete with	nearly complete externally, and a probable rail spur to serve the building was under construction at Kamensk-Shakhtinskiy Solid Motor Production Plant. Ground preparations for two new buildings and a new roadway were also in progress. No additional construction occurred on the possible bay-charger line. (S/WN) Pavlograd 29. At Pavlograd Solid Motor Production Plant, construction on both the large fabrication building and the new three-bay building continued. Construction on a rail spur to the new fabrication building and a new bay-charger line continued. Both the Kamensk-Shakhtinskiy and Pavlograd plants are involved in various stages of strategic rocket motor production, including production of SS-X-25 motors at Kamensk-Shakhtin-	25X1
25. Mobile Missile Base 1. Construction continued at this base, which is probably intended for deployment of the SS-X-25 mobile ICBM. single-bay garage components had arrived and were positioned near four of the type C single-bay garage foundations. Three additional type C garage foundations were identified, and it now appears that at least nine SBGs will be constructed (Figure 7). two of the seven-bay garages (previously reported as	nearly complete externally, and a probable rail spur to serve the building was under construction at Kamensk-Shakhtinskiy Solid Motor Production Plant. Ground preparations for two new buildings and a new roadway were also in progress. No additional construction occurred on the possible bay-charger line. (S/WN) Pavlograd 29. At Pavlograd Solid Motor Production Plant, construction on both the large fabrication building and the new three-bay building continued. Construction on a rail spur to the new fabrication building and a new bay-charger line continued. Both the Kamensk-Shakhtinskiy and Pavlograd plants are involved in various stages of strategic rocket motor production, including pro-	25X1
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25. Mobile Missile Base 1. Construction continued at this base, which is probably intended for deployment of the SS-X-25 mobile ICBM. single-bay garage components had arrived and were positioned near four of the type C single-bay garage foundations. Three additional type C garage foundations were identified, and it now appears that at least nine SBGs will be constructed (Figure 7). two of the seven-bay garages (previously reported as eight-bay garages) were externally complete with roof vents installed. The third seven-bay garage	nearly complete externally, and a probable rail spur to serve the building was under construction at Kamensk-Shakhtinskiy Solid Motor Production Plant. Ground preparations for two new buildings and a new roadway were also in progress. No additional construction occurred on the possible bay-charger line. (S/WN) Pavlograd 29. At Pavlograd Solid Motor Production Plant, construction on both the large fabrication building and the new three-bay building continued. Construction on a rail spur to the new fabrication building and a new bay-charger line continued. Both the Kamensk-Shakhtinskiy and Pavlograd plants are involved in various stages of strategic rocket motor production, including production of SS-X-25 motors at Kamensk-Shakhtinskiy and production of SS-X-24 motors at Pavlograd. (S/WN)	25X1

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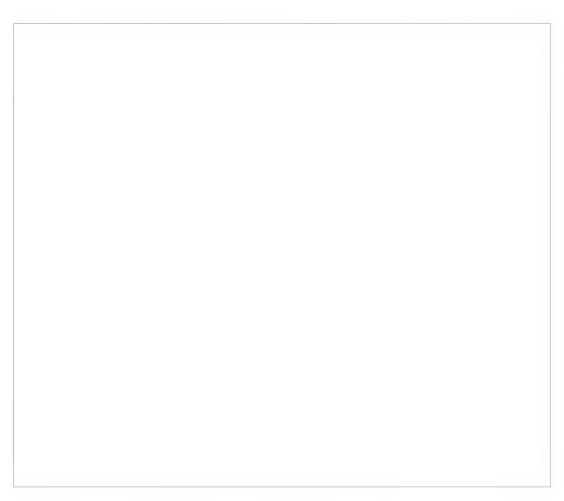
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25X1

- 30. At Pavlograd Solid Motor Assembly and Test Support Facility (SMATSF), the building program which was resumed and expanded in early 1983 continued. In addition, construction in a new area of expansion was started along the northeastern boundary of the facility. The new expansion area includes construction for a concrete road and two probable rail spurs and ground preparations for two new buildings. Analysis of present fence realignments indicates that the new construction will approximately double the usable area of the facility. This construction is believed to be related to the new construction at the Pavlograd Solid Motor Production Plant. (S/WN)
- 31. Additionally at the SMATSF, construction of a new rail shed has begun on a new rail spur next to the existing 124-meter-long rail shed. This new shed could be as long as 350 meters when complete. (S/WN)

Missile Support Rear Depots

- 32. Surovatikha. The pace of construction increased in the new missile receiving and storage area at Surovatikha Missile Support Rear Depot (Figure 9). Construction continued on the missile receiving and checkout building in the revetted area of the new storage facility. This 60- by 18meter building will consist of a 12-meter-wide, high-bay section and a 6-meter-wide, low-bay section. Construction was also started on a third missile storage building, and space is available for two more missile storage buildings. This facility could be at least partially operational in mid-1985. Although this specialized storage facility has been under construction since 1978, the increase in the pace of construction at this time suggests that the area is probably associated with the SS-X-24 and/ or the SS-X-25. (S/WN)
- 33. **Tambov.** Construction continued on the two missile storage buildings at Tambov Missile Support Rear Depot. These two new buildings should be completed by the end of this year. In addition, a rail spur is under construction, and associated expansion is taking place in the open transshipment yard in the eastern part of the depot. This expansion could be related to the storage of the SS-X-24 or the SS-X-25. (S/WN)



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Intermediate-Range Ballistic Missile Activity



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FIGURE 10A. MOBILE IRBM DIVISIONAL DEPLOYMENT AND NUMBER OF BASES IN EACH



SECRET/WNINTEL

FIGURE 10B. LOCATIONS ASSOCIATED WITH SOVIET MOBILE IRBM PRODUCTION AND TESTING

25X1

25X1

25X1

25X1

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INTERMEDIATE-RANGE BALLISTIC MISSILE ACTIVITY

Introduction

34. This section of the report addresses notable activity identified during this reporting period regarding deployment, development, and production of mobile intermediate-range ballistic missiles (IRBMs). It includes information on the identification of the 51st through 56th mobile IRBM bases at Brody, Sokal, Barnaul, Kansk, Usovo, and Belokorovichi, respectively, an indication of the continued accelerated Soviet deployment of SS-20s; the dismantlement of all nine single-bay garages at Yurya Mobile IRBM Base 3; the onset of the flight test program for the KY-15 (probable follow-on to the \$S-20); and the identifi-TEL and missile canister cation of a new_ dolly at Kapustin Yar (Figures 10A and 10B). Also provided is a summary of significant activity observed at deployed bases, field training areas, and testing and production facilities. Tables summarizing field training areas, mobile missile base construction, and C3 activity can be found in the appendix. (TS

consists of 56 confirmed bases: 42 complete and 14 under construction (one of the 14, Yurya Mobile IRBM Base 3, was being dismantled). Preparations for the probable construction of at least five more bases were in progress at three former SS-4 launch sites—Korosten launch site 2, Belokorovichi launch site 1, and Zhitomir launch site 2—and in two areas in the Kansk Division (see paragraph 118). If these are confirmed as bases and if the Pruzhany and Ruzhany bases are resubordinated to Lida,* the Soviets would have 11 SS-20 divisions of five bases each and one division, Novosibirsk, with six. (S/WN)

Western USSR/Vinnitsa SRF Army

Deployment

35. Mobile IRBM base construction continued at an unprecedented rate (Figure 11). Six new SS-20 bases were identified during this reporting period, bringing the number of new SS-20 bases identified this year to 12. The SS-20 force now

Belokorovichi Division

36. **Usovo.** Ithe 55th mobile IRBM base was identified in a very early stage of construction at Usovo MRBM Launch Site 3, a former SS-4 launch site in the Belokorovichi Division. This is the first confirmed SS-20 base in

^{*}This possibility is based on the proximity of the regiments to the Lida Division and the absence of SS-20-related activity at the Pruzhany division-level facilities. (S/WN)

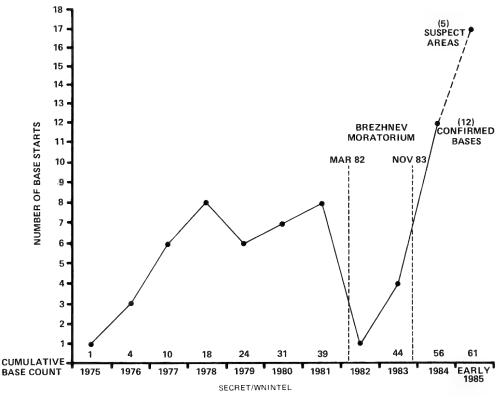


FIGURE 11. SS-20 BASE CONSTRUCTION STARTS BY YEAR

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25X1 25X1

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					25X1
nated Usovo Mobile IRB reported in the Late D Mobile Missile Summary was deactivated in Apri was first observed in the	clearing was observed in area, garage were identified in erations area of this base. large enough to accomwere also present. Addi-	cations stations.	wo permanent sate The reason for nication capability I. (S/WN)	this increased	25X1 25X1 25X1 25X1
observed along the peri	meter of the operations				
	/WN)				25X1
37. Belokorovichi. mobile IRBM base was id tion at Belokorovichi M new base, designated Be	RBM Launch Site 2. The okorovichi Mobile IRBM	was observed Payload Handling	r-mounted TWIN ext to the result of the resu	ne Gresk SS-20 currently the	25X1 25X1
Base 1, is the second mo in the Belokorovichi Di		tower-mounted	TWIN EAR. Constr	with a	25X1
ported as a deactivated	SS-4 site As	tower and the ass	ociated control bui	lding began in	25X1
deactivation was taking percenting were noted. Clearings for four-bay percentioned.	three garages were identified.	nas were previou 20 C3 facilities. T	ower-mounted TWI sly seen only at div The reason for a to nna at the Gresk S.	rision-level SS- ower-mounted	25X1
garage, footings had been instal foundations for a C3 bumultibay garage, clearinsingle-bay garages, and	a second set of ed. Also identified were illding and its associated gs for several probable	has not been dete	ermined. (S/WN)	5 20 Tegiment	25 X 1
security fence. (S/WN)					25X1
cations station was uncomozyr IRBM Division Hemunications Transmitted designated Type E, was construction and consists building with estals on the roof. Traised section is between nas were observed. (S/WN)	the pedestals. No anten-	Romny MR/IRE Bunker (see Mol a Type E adjacent to the stages of constru dome antenna wa next to the co modified harden hardened antenna municating with October 1983, th launch sites and then, however, r nas have been u division comman Division Comman recent constructi antennas at both mand posts indi this antenna and command post fu 44. Krolevel pads were unde approximately 30 Base 1. Concrete of two square gra 45. Mobile nally complete d all n three four-bay ga however, the roa	C3 upgrading cor BM Division Com BM Division Com BM Division Commodile Missile Summa satellite communication. Also, a modile sin the midstage control bunker (Figled dome antenna believed to be to an airborne comma ese antennas were launch control for a modified hardened inder construction diposts and the Lund Post (see paragon of modified ha IRBM and ICBM cates increasing did a possible increaction within the Sistem Construction in a construction in a meters north of paving blocks were ded areas. (S/WN) IRBM Base 2 was uring this reporting ine single-bay garrages appeared to divide network within the C3 area.	armand Post/ ary 23)	25X1 25X1 25X1 25X1 25X1 25X1 25X1 25X1
0.04.04.75.75.75	- 14				25X1
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25X1 25X1

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> 25X1 25X1

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ge of construction. The three-story C3 building is complete, and the roof of the associated 11-ying garage was being tarred. One lattice mast tenna had been erected adjacent to the C3 ilding, and a single-story, flat-roofed building dibeen added to the motor pool section of the oport area. Construction has advanced further	one had a partially tarred roof, and the third had only two-thirds of its roof panels in place. The security building used to control access to the operations area was complete, and construction in the propellant area had progressed to the point where this area could now be confirmed as the new C3 area. Construction there consisted of a
s complete, and the roof of the associated 11- y garage was being tarred. One lattice mast tenna had been erected adjacent to the C3 ilding, and a single-story, flat-roofed building d been added to the motor pool section of the	only two-thirds of its roof panels in place. The security building used to control access to the operations area was complete, and construction in the propellant area had progressed to the point where this area could now be confirmed as the
s complete, and the roof of the associated 11-y garage was being tarred. One lattice mast tenna had been erected adjacent to the C3 ilding, and a single-story, flat-roofed building d been added to the motor pool section of the poport area. Construction has advanced further d faster at this base than at any other base trently under construction. As a result, it seems ely that this will be the next base to achieve erational status. (S/WN)	only two-thirds of its roof panels in place. The security building used to control access to the operations area was complete, and construction in the propellant area had progressed to the point where this area could now be confirmed as the new C3 area. Construction there consisted of a three-story C3 building and an 11-bay garage, both
s complete, and the roof of the associated 11-y garage was being tarred. One lattice mast tenna had been erected adjacent to the C3 ilding, and a single-story, flat-roofed building d been added to the motor pool section of the oport area. Construction has advanced further d faster at this base than at any other base errently under construction. As a result, it seems ely that this will be the next base to achieve erational status. (S/WN) 46. Akhtyrka. Steady progress has been obvived at Akhtyrka Mobile IRBM Bases 1 and 2, the arth and fifth bases in the Romny Division. As of the number of single-bay garages at obbile Base 1 remained at seven, unchanged from	only two-thirds of its roof panels in place. The security building used to control access to the operations area was complete, and construction in the propellant area had progressed to the point where this area could now be confirmed as the new C3 area. Construction there consisted of a three-story C3 building and an 11-bay garage, both
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				2	5X1
late stages of construction northeast of bunker. Also, a probable five-element antarray had been constructed on the northwe corner of the bunker, and a modified hard dome antenna was in the midstage of construment to the bunker. (S/WN) 49. Sokal. the 52nd mobile I base was identified in an early stage of constion at Sokal SSM Launch Position 3, a former launch site. Construction continued at this designated Sokal Mobile IRBM Base 1 (prevince ported in the Late Developments section Mobile Missile Summary Report 24). ———————————————————————————————————	tenna o estern T lened fa laction IRBM la structor SS-4 b lasse, coiously F lon in b missible d SS-4 large	ne of the nine MSVs his is the first sighting acility. (S/WN) 53. The FINE PAIF f two 2.0-meter-diamentice tower, mounted ontenna is probably for een observed with SS-ises, INE PAIR antenna was	name) was mounted on involved in the exercise. of the FINE PAIR at this R antenna system consists eter screens/dishes on a n an MSV (Figure 13). This radio-relay and has only 20 field training C3 exer- The first observed at Novosimen it was identified as a	2 2 2	5X1 5X1 5X1 5X1 5X1
50. Ostrog. Construction has continued the initial identification of Ostrog as a mobile	e base 🛛	Table 4.			5 1/4
Construction was still in the stages, with toundations present for one mu	ıltibay	INE PAIR Summary		_	5X1
and two four-bay garages. single-bay garage foundations had been a	three dded. L	ocation		2	5X1
(S/WN)	'	WESTERN USSR		2	5X1
51. Brody. the 51st mobile base was identified in the midstage of constru		Crolevets SSM Complex Postavy Mobile IRBM Base		2	5 X I
at Brody MRBM Launch Site 3, a former SS- launch site. This base is the first SS-20 base	-4 silo 🛮 🖪	ASTERN USSR			
constructed at a deactivated hard SSM launc	h site	Novosibirsk FTA 011 Novosibirsk FTA/R 001			
in the western USSR. The new base, desig Brody Mobile IRBM Base 1, was previous		Novosibirsk FTA 20			
ported in the Late Developments section in bile Missile Summary Report 24.		Drovyanaya SSM Complex			5X1
construction consisted of six single-bay ga	rages,	This table is SECRET/WNINTE	L.	_	
two five-bay garages, one multibay garage, probable C3 building. Five-bay garages have	never			2	5X1
before been constructed in the operations at a mobile IRBM base in the western USSR;					
have previously been confined to the oper	ations				
areas of scratch-built bases in the east. presence at Brody may be due to the fact that					
hard sites do not have the missile-ready but	unkers				
which are present at SS-4 soft sites, and c quently, extra garage space for missile su					
vans (MSVs) is needed. (S/WN)					
Western USSR/Smolensk Army					
•					
Postavy Division					
•	orais -				
 Postavy. An SS-20-associated C3 exconsisting of 11 camouflaged SS-20-associate 	ed ve-				
hicles was observed in a wood <u>ed area sout</u> he				2	5X1
Postavy Mobile IRBM Base 1 A	TINE			_	

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25X1

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			25X1
			25X1
•			
Lida Division			
tions area of Ruzhany.* tions area of Ruzhany M contained foundations for ei in addition to the footing garages. These four-bay garathe midstage of construction roof panels already installed C3 building was added to the footings for an 11-bay garage installed on the former SS-4 (S/WN) 55. Pruzhany.* The 50	ght single-bay garages is for three four-bay ges had progressed to it, with walls and some d. A foundation for a ne area that contained e. New vents had been missile-ready bunkers.		25X1
<u>base was identified at Pruzl</u>		Central USSR/Vladimir SRF Army	 25X1
	the foundation for a size outside the opera- foundations for four four-bay garages (Fig- nea. As at other recent ed at deactivated SS-4 ant storage area has the location for the n 11-bay garage and a	• Yurya Division	25X1
56. Lida nearly complete on the Type cations station at the Lida mand Post/Bunker. The two	IRBM Division Comparabolic dish anten-	57. Yurya. The Yurya Division is probably undergoing conversion to another missile system. Possibilities include the SS-20 follow-on IRBM or the SS-X-25 ICBM. The nine single-bay garages at Yurya Mobile IRBM Base 3, an operational SS-20 base since December 1980, have been dismantled.	25X1
nas have been installed, indi is or will soon be operationa		when two garages were completely dismantled and two were partially dismantled. Four days later, dismantlement of a fifth single bay garage began. Initially, the disassembled garage components were stacked by the foundations and	25X1 25X1 25X1
		were not removed from the operations area. However, one set of single-bay garage components had been removed. all nine garages were dismantled, and the components for four of these had been removed from the operations area (Figure 16). The final disposition of these components has not been determined. Note of the three three has	25X1 25X1 25X1
		garages has been dismantled. (S/WN/	25X1 25X1
		58. The purpose of this dismantlement has not been determined. Because of the construction of Mobile Base 6 with type C SS-X-25-associated single-bay garages and because of the fact that only the single-bay garages are being disassembled, these SS-20-associated single-bay garages may be converted to the longer SS-X-25-associated garages, making this a second probable support base for the SS-X-25 in the Yurya Division. If this is	
*These regiments were previous			051/4
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confirmed, it is expected that the remaining four	Eastern USSR/Chita SRF Army	
confirmed, it is expected that the remaining four SS-20 bases at Yurva will also be converted. (S/WN 59. Dismantlement of the single-bay garages	Eastern USSR/Chita SRF Army	
SS-20 bases at Yurya will also be converted. (S/WN) 59. Dismantlement of the single-bay garages was preceded by removal of appendages between Whether this removal may be used as an indicator of single-bay garage dismantlement is uncertain. Although the appen-	Eastern USSR/Chita SRF Army	
SS-20 bases at Yurya will also be converted. (S/WN 59. Dismantlement of the single-bay garages was preceded by removal of appendages between Whether this removal may be used as an indicator of single-bay garage dismantlement is uncertain. Although the appendages were removed from one single-bay garage at Yurya Mobile IRBM Base 2 garage dismantlement has not yet fol-	Eastern USSR/Chita SRF Army * Kansk Division	
SS-20 bases at Yurya will also be converted. (S/WN 59. Dismantlement of the single-bay garages was preceded by removal of appendages between Whether this removal may be used as an indicator of single-bay garage dismantlement is uncertain. Although the appendages were removed from one single-bay garage at Yurya Mobile IRBM Base 2 garage dismantlement has not yet followed. Similarly, although the appendages were removed from the single-bay garages at Yurya Mobile IRBM Base 1 between January and August 1984, the garages are still intact. Appendages at Yurya Mobile IRBM Base 4 have been absent from all but one single-bay garage since January 1984. Before appendage removal is determined to be an indicator of garage dismantlement and base con-	Kansk Division 60. Kansk. a new scratch-built SS-20 base was discovered in the midstage of construction. Designated Kansk Mobile IRBM Base 3, it is the 54th mobile IRBM base identified in the Soviet Union and the third in the Kansk Division. This base, initially reported on in the Late Developments section of Mobile Missile Summary Re-	2
SS-20 bases at Yurya will also be converted. (S/WN 59. Dismantlement of the single-bay garages was preceded by removal of appendages between Whether this removal may be used as an indicator of single-bay garage dismantlement is uncertain. Although the appendages were removed from one single-bay garage at Yurya Mobile IRBM Base 2 garage dismantlement has not yet followed. Similarly, although the appendages were removed from the single-bay garages at Yurya Mobile IRBM Base 1 between January and August 1984, the garages are still intact. Appendages at Yurya Mobile IRBM Base 4 have been absent from all but one single-bay garage since January 1984. Before appendage removal is determined to be an indicator of garage dismantlement and base conversion, activity at two additional SS-20 complexes, Novosibirsk and Verkhnyaya Salda, should be closely analyzed. Appendages have been removed from single-bay garages at the bases with appendages at Novosibirsk since September 1984 and at Verkhnyaya Salda since January 1983. But, unlike Yurya, no further dismantlement was observed at	Kansk Division 60. Kansk. a new scratch-built SS-20 base was discovered in the midstage of construction. Designated Kansk Mobile IRBM Base 3, it is the 54th mobile IRBM base identified in the Soviet Union and the third in the Kansk Division. This base, initially reported on in the Late Developments section of Mobile Missile Summary Report 24, consists of an operations area with nine single-bay garage foundations and three five-bay garages in a mid-to-late stage of construction; a C3 area with a multistory C3 building and a ten-bay garage; and a general support area containing two multistory buildings, one multibay garage, a single-story administration building, and a steam-	2
SS-20 bases at Yurya will also be converted. (S/WN 59. Dismantlement of the single-bay garages was preceded by removal of appendages between Whether this removal may be used as an indicator of single-bay garage dismantlement is uncertain. Although the appendages were removed from one single-bay garage at Yurya Mobile IRBM Base 2 garage dismantlement has not yet followed. Similarly, although the appendages were removed from the single-bay garages at Yurya Mobile IRBM Base 1 between January and August 1984, the garages are still intact. Appendages at Yurya Mobile IRBM Base 4 have been absent from all but one single-bay garage since January 1984. Before appendage removal is determined to be an indicator of garage dismantlement and base conversion, activity at two additional SS-20 complexes, Novosibirsk and Verkhnyaya Salda, should be closely analyzed. Appendages have been removed from single-bay garages at the bases with appendages at Novosibirsk since September 1984 and at Verkhnyaya Salda since January 1983. But, unlike	Kansk Division 60. Kansk. a new scratch-built SS- 20 base was discovered in the midstage of con- struction. Designated Kansk Mobile IRBM Base 3, it is the 54th mobile IRBM base identified in the Soviet Union and the third in the Kansk Division. This base, initially reported on in the Late Devel- opments section of Mobile Missile Summary Re- port 24, consists of an operations area with nine single-bay garage foundations and three five-bay garages in a mid-to-late stage of construction; a C3 area with a multistory C3 building and a ten-bay garage; and a general support area containing two multistory buildings, one multibay garage, a sin-	

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73. Activity in support of the SS-20 crew training program at Kapustin Yar MSTC (Figure 18) continued throughout the reporting period. The flight test program of a probable follow-on to the

SS-20 began. a new-type, TEL was identified at Kapustin Yar General Support Area.

mobile missile prelaunch activity was identified at the new launch test position at Kapustin Yar MR Test Complex C Site 1. On 27 September, DEFS-MAC reported the launch of a probable follow-on to the SS-20, interim designator KY-15 (Table 6), from Kapustin Yar

a new-type mobile missile canister dolly was identified at the rangehead. (T

Table 6. **KY-15 Launch Summary**

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RCA-01/0017/84

Launch Date*	Launch Site (mode)**	Remarks*
27 Sep 84	Prob KY 1C (TEL)***	Success
	nch activity was observed, no arks, blast effects, or selfeje as identified	

74. Activity in Support of SS-20 Flight Testing/Crew Training. Activity in support of SS-20 crew training was observed throughout the reporting period. Based on the number, frequency, and locations of SS-20 regiments observed at the rangehead in 1984, it is likely that at least two SS-20 regiments are cycled through the rangehead each month. During the reporting period, DEFSMAC

reported SS-20 launches on 20 July and on 4 and 31 August

battalion-sized SS-20 unit 75. A was at Kapustin Yar Mobile IRBM Crew Training Area (CTA) 1 and regimental-sized SS-20 units were at Kapustin Yar Mobile IRBM CTA 5 during July and September. One SS-20 battalion and occasionally elements of a second were observed in the battalion-sized operational training area at Kapustin Yar MR/IRBM Bivouac/Troop Training Area during July, August, and September. As many as four SS-20 TELs with training canisters and three TEL chassis have also been observed on the driver-training course west of the Bivouac/ Troop Training Area at the same time that other SS-20 crew training was in progress. One SS-20 regiment and occasionally elements of a second regiment were in temporary storage or transit at Kapustin Yar Missile Receiving/Inspection/Storage Area during each month of the reporting period. SS-20 regimental-sized field training exercises have been observed nearly monthly in 1984 at the same time that at least one SS-20 regiment was in transit or temporary storage in the Receiving/Inspection/Storage Area. This suggests that at least two and possibly three SS-20 regiments have been at and cycled through the rangehead per month in 1984. Although some of this activity probably is in support of crew training for regiments to be deployed at new bases, it is likely that the majority of the regiments observed at Kapustin Yar in areas historically associated with the SS-20 are from deployed complexes and are participating in cyclical training. (S/WN)

76. Additional SS-20 C3 activity has been identified at the rangehead. Since August 1979, during periods when an SS-20 regiment is at the

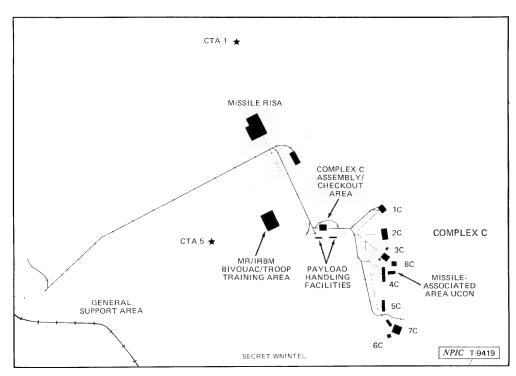


FIGURE 18. KAPUSTIN YAR COMPLEX C AND ASSOCIATED SUPPORT FACILITIES

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rangehead for training, a regimental C3 unit has been cable connected directly to two towermounted, separately secured, STICK PIN antennas at the Receiving/Inspection/Storage Area. At the same time, a second regimental C3 unit has been in the field with the launch battalions. The use of two regimental C3 units with one SS-20 regiment and the direct cable connection of missile support vehicles to STICK PIN antennas are unusual and have not been observed at deployed SS-20 complexes. It is also unusual that the STICK PIN antennas were installed in the Receiving/Inspection/Storage Area, a missile/equipment transloading and temporary storage facility. STICK PIN antennas are installed at SS-20 regiment and division C3 facilities and are for UHF/VHF communications within a complex. The STICK PIN antennas at the Receiving/Inspection/Storage Area were installed between January and March 1979 and separately secured by August 1979. (S/WN)

77. The most recent occurrence of this type of C3 activity at Kapustin Yar

an SS20 regimental-sized unit consisting of two launch
battalions (each with two TELs) and a C3 unit were
training at Kapustin Yar Mobile IRBM CTA 5. On
another C3 unit was in the Receiving/Inspection/Storage Area. The latter C3 unit at
the Receiving/Inspection/Storage Area consisted
of five MAZ-type MSVs and at least two unidentified vehicles. Antenna masts were discernible on
three of the MSVs. An antenna mast was at both

ends of one vehicle, and a possible dish antenna was observed on one MSV. (S/WN)

78. Activity in Support of a Follow-on to the SS-20. (In previous Mobile Missile Summary Reports, this section was titled "Activity in Support of a New IRBM System.") Preparations for the flight test program of a probable follow-on to the SS-20, which has an interim designator of KY-15, was identified during the reporting period.

| A new-type, | TEL,

probably for the KY-15, was identified at Kapustin Yar General Support Area.

probable KY-15 prelaunch activity was identified at the new launch test position at Kapustin Yar MR Test Complex C Site 1.

DEFSMAC reported the launch of a KY-15 from Kapustin Yar

a new-type mobile missile canister

79. At Kapustin Yar MR Test Complex C Site
1, probable KY-15 prelaunch activity was under
way On both
days, three probable missile-

associated vehicles—the easternmost was a probable MSV—were cable connected on the major east-west road in the new launch test position at the north end of the site. This new launch test position (LP) 1C-4.

vehicle was under each of the two 18-meter-long, open-sided sheds at LP 1C-4. On 27 September, no vehicles were under the sheds, and 25X1

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87.	a new-type mobile	the KY-15 include a new training/administration	
missile canister dolly was	identified in the original	area, a new vehicle storage and maintenance are	ea,
missile canister dolly was missile/payload handling lies were east of the missil	identified in the original area. Two of these dol- le/payload receiving and	area, a new vehicle storage and maintenance are the east and west missile/payload handling areas, paved driver-training course, a rail-served missil	ea, , a e/
missile canister dolly was missile/payload handling	identified in the original area. Two of these dol- le/payload receiving and	area, a new vehicle storage and maintenance are the east and west missile/payload handling areas, paved driver-training course, a rail-served missile payload transloading area, and a rail-to-road tran- loading area. Most of the buildings and structur	ea, , a e/ es
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Production

Single-Bay Garage Component Production and Stockpiling

90. Single-bay garage components continued to be fabricated and stockpiled at Bryansk Guided Missile Equipment Plant II. Garage components also continued to be stockpiled at at least three of the seven (Figure 22) missile support rear depots (MSRDs). Components for at least 36 single-bay garages were delivered to the field from July through September: nine each to Akhtyrka Mobile IRBM Base 1, Akhtyrka Mobile IRBM Base 2, Barnaul Mobile IRBM Base 5, and Yoshkar-Ola Mobile Base 1. By the end of September, enough components for the construction of at least 40 single-bay garages remained stockpiled at Bryansk and the MSRDs. Counts of single-bay garages stockpiled at the MSRDs and in the transshipment yards at Bryansk from July through September are listed in Table 7. (S/WN)

91. Bryansk Guided Missile Support Equipment Plant II. components for at least four single-bay garages were stockpiled at Bryansk. Coverage was insufficient (the only coverage obtained was during the period to determine if any change in production rates occurred. Based on the analysis of the previous 12

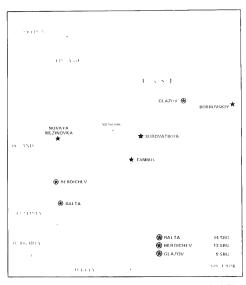


FIGURE 22. SOVIET MISSILE SUPPORT REAR DEPOTS

months, the production rate is estimated to be approximately 4.5 to five single-bay garages a month. The apparent low number of components shipped to the MSRDs (only components for at least four single-bay garages to Berdichev) suggests that the components produced at Bryansk probably went directly to the field rather than to the MSRDs. If production rates remained consistent with the previous 12 months, components for approximately 15 SBGs would have been shipped from Bryansk from July through September. (S/WN)

Missile Support Rear Depots

92. Mobile missile vehicle transshipment activity was observed at Bobrovskiy MSRD, and single-bay garage components continued to be stockpiled at the Balta, Berdichev, and Glazov MSRDs, but not at Surovatikha. Components for at least 19 garages were shipped from three of the depots. Enough components remain stockpiled at the depots to construct at least 36 additional garages (Table 7). (S/WN)

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103. Shumerlya. The production increase in missile support vehicles that started in early 1984 at Shumerlya Missile Ground Support Equipment Plant continued. Also, the probable communications van version of the MSV was identified at the facility When two of the vehicles were seen near the large assembly building in the western part of the plant. This observation links Shumerlya with Moskva Tractor Plant Ismailovo as the only two known plants associated with the assembly of this version of the MSV. (S/WN) 104. Minsk. The expansion program continued at Minsk Motor Vehicle and Guided Missile Support Equipment Plant. Construction continued on the large fabrication/assembly building, which is connected to the missile support equipment associated area of the plant. The building will probably become operational in mid-to-late 1985. (S/WN)	

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SRBM ACTIVITY

Short-Range Ballistic Missile Activity



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SHORT-RANGE BALLIS	TIC MISSILE ACTIVITY
Introduction	SCALEBOARD Activity
105. This section of the report addresses the deployment, research and development, production, and logistics of Soviet short-range ballistic missile (SRBM) systems. It summarizes the status of SCALEBOARD (SS-12) deployment in Eastern Europe (Figure 24) and involvement in antitactical ballistic missile (ATBM) testing near Emba. Also discussed is the recent activity observed at the Kapustin Yar missile test range and status of SS-23 and SS-21s. An updated SRBM order of battle and a list of acronyms and abbreviations can be found in the appendix. (S/WN)	106. NPIC still assesses that three SCALEBOARD brigades are deployed in Eastern Europe, and another in Czechoslovakia. SCALEBOARD launchers were identified for the first time in late July and early August 1984 in two of the brigade areas. Two launchers were engaged in a field exercise in the Libava Training Area near facilities used by the brigade in Czechoslovakia

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SS-23 Activity

109. No unusual activity associated with the SS-23 was detected during this reporting period. The introduction of the SS-23 into operational units has still not been observed. (S/WN)

113. No major new construction or significant activity was observed at Petropavlovsk Missile Assembly Facility during this reporting period. This facility is reported to be responsible for the production of missile airframes and probably the final assembly of the SS-12 Mod 2 and SS-21 SRBMs.† (TSR)

TSR information extracted from DIA. DDB-1923-4-	-82,	Foreign Missile Production	Communist World
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RELATED ACTIVITY

Related Activity

KOZELSK YEDROVO
KOSTROMA
KOROSTEN
ZHITOMIR
BELOKOROVICHI

KANSK

IRKUTSK

SECRET/WNINTEL

FIGURE 26. LOCATIONS WITH POTENTIAL SOVIET MOBILE MISSILE ASSOCIATION

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RELATED ACTIVITY

Introduction

114. This section of the report addresses selected unidentified construction projects which are believed to have a potential mobile missile association. These projects will be closely monitored, with the significant changes reported in this section until identified, after which they will be included in the appropriate section of this report or in other NPIC reports. A list of acronyms and abbreviations can be found in the appendix. (S/WN)

115. The projects in this section remained in a relatively early stage of construction. Four areas of interest at Korosten, Zhitomir, and Kansk have characteristics suggesting a mobile IRBM association, while six others at Irkutsk, Kostroma, Kozelsk and Yedrovo may have a mobile ICBM association (Figure 26). One facility at Yurya, Mobile Base 6, initially thought to have a mobile missile association, was confirmed as a mobile missile base probably for the SS-X-25 and is now discussed in the ICBM section of this report. (S/WN)

:

Korosten MRBM Launch Site 2

Zhitomir MRBM Launch Site 2

an area between the site support facility

had been cleared of trees. This type of clearing has been seen at other deactivated MRBM sites prior to SS-20 conversion, and usually a C3 facility is constructed in this area. (S/WN)

Kansk

118. Two new areas of activity, possibly for SS-20 bases, were observed. The first area, identified is approximately 9 nm south

of Kansk Mobile IRBM Base 3. It consisted of extensive tree clearing and grading with a construction support camp of temporary barracks and tents also being established. Several pieces of construction equipment were present, and a swath for a powerline was being extended toward the site. A second area of interest, consisting only of tree clearing and grading, was also identified approximately 10 nm south of the first. (S/WN)

Irkutsk

Construction Site 1

a loop road had been graded within the operations area.

the operations area.

to a loop road had been graded within foundations were present for four large rectangular buildings in the construction support camp.

construction of one of these buildings had progressed to the midstage. This site remained in an early stage of construction with excavations for footings for one seven-bay garage and clearings for two other seven-bay garages in the operations area. (S/WN)

Construction Site 2

loop road had been graded, two new linear areas had been cleared of trees, and stanchions had been placed in the footings of one of the sevenbay garages. Building materials and construction vehicles were near the three seven-bay garage foundations. The tree clearing around the perimeter of the operations area for security fences, started in March, had been completed. In the support area, two large trenches had been dug and construction was continuing on several buildings. ______ stanchions and roof braces had been installed in one of the seven-bay garages. (S/WN)

121. The seven-bay garages being built at Construction Sites 1 and 2 appear identical to those seen at Yoshkar-Ola Mobile Missile Base and Yurya Mobile Missile Base 6. This type of garage has been identified only at mobile missile bases that are probably for the SS-X-25.

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Construction Site 3

122. The function of this area was still undetermined when it was last observed

Construction was continuing on apartment buildings, barracks, and administration buildings, although no missile-associated buildings have been identified. No rail lines were present, and no extensive security was observed. (S/WN)

Kostroma SSM Complex

123. At Kostroma, where 40 SS-17s and 50 SS-11s are deployed in silos, construction of the probable SS-X-24 missile receiving and checkout area continued. Construction of the probable SS-X-24 MRACA is concentrated in two general areas designated Area A and Area B. By August, a rail spur had been installed from the main rail line into Area A, and two large buildings and four small buildings were under construction. The large buildings were 48 by 25 meters and 88 by 19 meters. In Area B, footings for a large building measuring approximately 82 by 18 meters remained unchanged since April. (S/WN)

124. In the receiving area of the RTP, a probable rail transfer shed was under construction near the propellant handling facility. Two rows of six footings, measuring 32 by 10 meters, were observed adjacent to the oxidizer dispensing building. In addition, stays that could support canvas net material were being installed over approximately 500 meters of the rail line in the RTP. In the barracks area near the RTP, construction on three barracks and a messhall was completed. (S/WN)

125. When the missile receiving and checkout area and the probable rail transfer shed in the rail-to-road transfer point are completed, these facilities will probably be capable of supporting both the silo-based and rail-mobile deployment

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modes of the SS-X-24 ICBM. The SS-X-24 could be deployed in silos by 1985—1986 and in a more survivable rail-mobile mode by 1987—1988. As yet, no indications of a silo modification program or rail-mobile launch facilities have been identified at Kostroma. (S/WN)

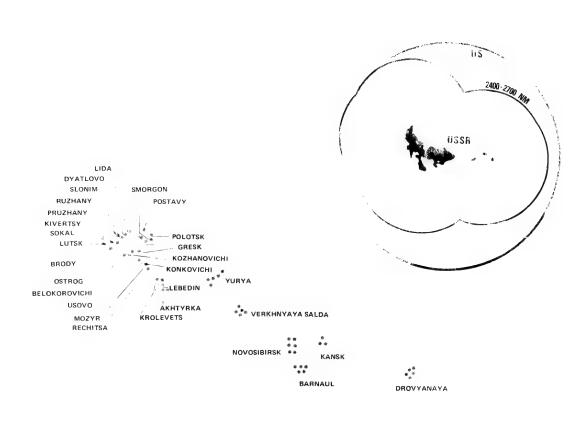
Kozelsk SSM Complex

126. At Kozelsk, where 60 SS-19 and 50 SS-11 ICBMs are deployed, the construction of the new component storage area in the NWHF has remained virtually unchanged since March 1983. The purpose of this construction remains undetermined; however, the apparent low priority assigned by the Soviets to this project is not indicative of new system deployment. Only significant developments at Kozelsk will be included in subsequent reports. (S/WN)

Yedrovo SSM Complex

127. At Yedrovo, where 110 SS-17 ICBMs are deployed, probable SS-X-24-related construction continued on two buildings in the RTP. The large rail-in, high-bay building under construction is a probable SS-X-24 receiving, inspection, and checkout building. The high-bay portion of the building is rail served and measures 60 by 12 meters. The adjoining low-bay portion, 60 by 6 meters, will probably house technical support equipment for inspection and checkout. Footings for a second building, measuring 32 by 11 meters, are adjacent to the RIC building. This construction is probably related to silo deployment of the SS-X-24. The limited scale of construction tends to rule out deployment of the rail-mobile version of the SS-X-24, which apparently requires more extensive handling facilities such as those at Plesetsk and under construction at Kostroma. No indications of silo modification have been observed at Yedrovo. (S/WN)

Appendix



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FIGURE A1. LOCATIONS OF SS-20 MOBILE IRBM BASES.

APPENDIX

Introduction

A1. This section of the report contains the significant baseline information that NPIC considers most accurate and best suited for Soviet mobile missile analysis. Included are the basic operational characteristics of the weapon systems, dimensions of significant associated structures, abbreviations

for standard terminology, and basic installation information, including an updated, imagery-derived order of battle for Soviet SRBMs. Also included are two tables that summarize construction and C3 activity at deployed SS-20 IRBM bases (Figure A1). Recommendations and comments regarding this section, as well as suggestions for items to be included in future appendixes, are welcome. (S/WN)

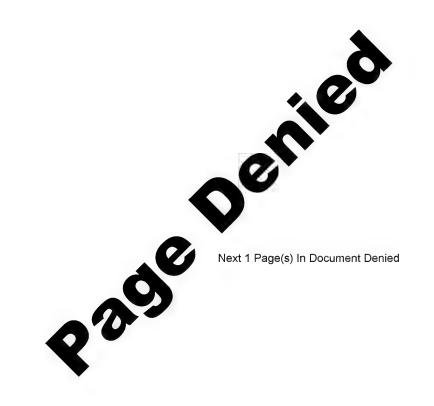
Acronyms and Abbreviations

AAD	azimuth alignment device	MRAC	missile receiving and checkout
APRTB	army mobile rocket	MRB	missile-ready building/bunker
	technical base	MSE	missile support equipment
C3	command, control, and	MSRD	missile support rear depot
	communications	MSTC	missile/space test center
can/cap	canister/capsule	MSV	missile support van
cp/bnk	command post/bunker	MTC	missile test center
CSF	complex support facilities	NPHF	nuclear payload handling facility
CTA	crew training area	NWHF	nuclear warhead handling facility
DDTA	dispersal/driver training area	NWSA	nuclear weapons storage area
ERC	emergency rocket communications	ORPD	independent rocket transport
ESF	East Support Facility		battalion
FPRTB	Front mobile rocket	PBV	postboost vehicle
	technical base	PGCS	propulsion guidance control section
FTA	field training area	PHF	payload handling facility
FTX	field training exercise	PRTB	mobile rocket technical base
GSA	general support area	rail-TEL	rail-mobile transporter-
GSE	ground support equipment		erector-launcher
INF	intermediate nuclear forces	RIC	receiving, inspection, and checkout
IR	infrared	RIM	receiving, inspection, and
LAD	launch-assist device		maintenance
LCF	launch control facility	RISA	receiving/inspection/storage area
LRCM	long-range cruise missile	RTB	rocket technical base
LRP	launch reference position	RTP	rail-to-road transfer point
LTF	launch test facility	SBG	single-bay garage
LTS	launch test site	SMRA	silo materials receiving area
MD	military district	TEL	transporter-erector-launcher
MHF	missile handling facility	T-L	transporter-loader
MOB	mobile missile base	UHF/VHF	ultrahigh frequency/
MRACA	missile receiving and checkout area		very high frequency

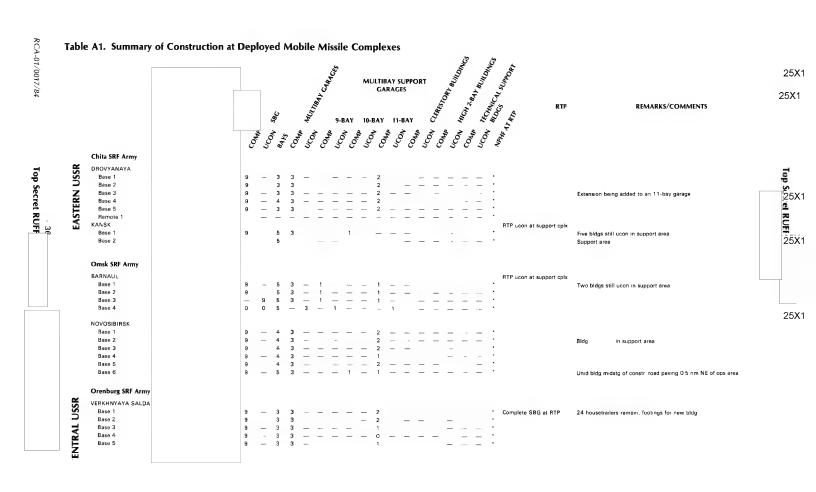
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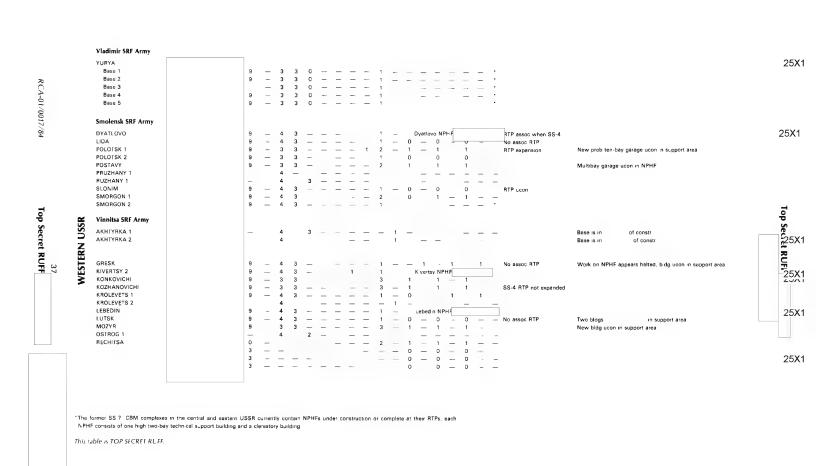
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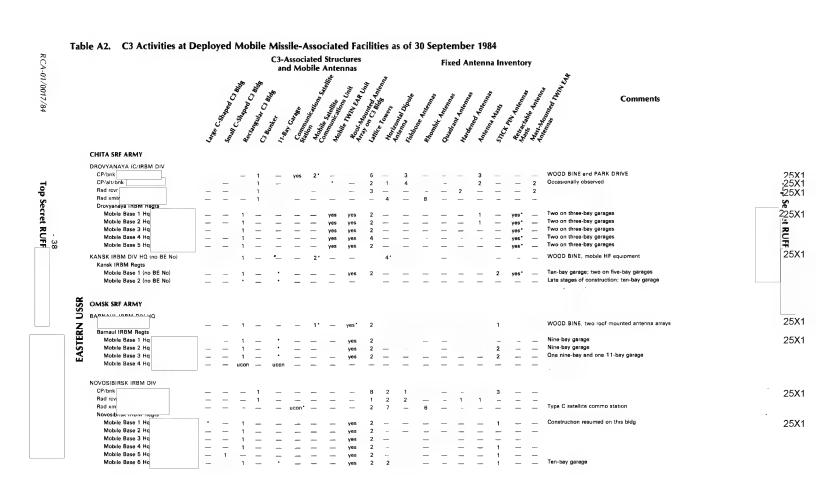
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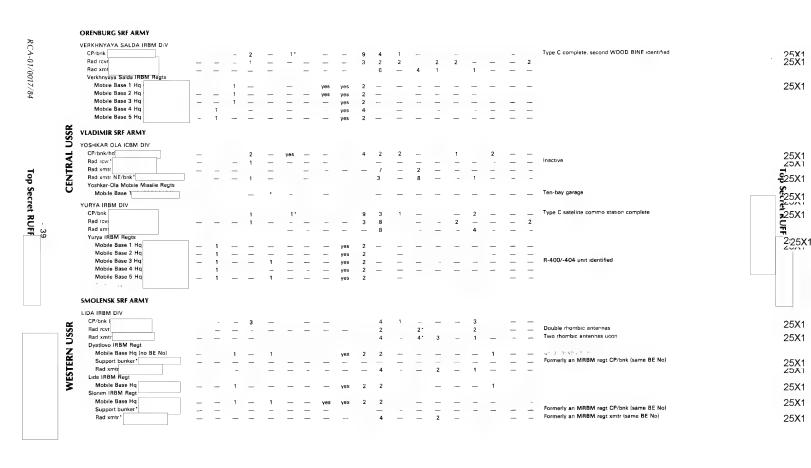
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Rad rov	_	_	ucon	1	ucon	_	-	_	_	_	4	_	_	_	1	1 2	_	_	-	Formerly an MRBM regt CP/bnk (same BE No) Formerly an MRBM regt royr (same BE No)
														-		•				
STAVY IRBM DIV																				
CP/bnk Rad rev		_	_	3		1	_	_	_	4	4			1	-	8	_	3	_	
Rad xm	_		_	1.	_	_	_	_	-	5	-	_	-	_			_	_	3	Five van trucks & trailers at bok
Polotsk IRBM Regt			_	_	_	Lat.		-	_		10	_		2	-	6	_	_		
Mobile Base 1 Ho	_	_	1	_	-	_		_		-	2	_				2				Formerly an MRBM regt CP/bnk (same BE No)
Mobile Base 2 Ho		1	_	_	1	_	****	_	ves	_	2		_	_	_	1	_	_	_	Tombry an initial regit of their (same be 140)
Rad xmtr			_	_	_		_	_	_	_	6*	_	_		_	1.	_	_	_	Two horizontal dipoles removed, mast supports FORK REST antennas
Postavy IRBM Regt																				
Mobile Base Hq*	1.	-		1	_	_	_	_		_	2	_	_	_	-	2	_	_		Former MRBM regt CP/bnk (same BE No), unid bnk ucon behind bldg
Smorgon IRBM Regt Mobile Base 1 Hg																				
Mobile Base 2 Hg		_	1	****	-		_		_	2	2	_	-		_	1	_	_	_	Formerly an MRBM regt CP/bnk (same BE No)
Rad xmtr		_		_	1	_	_	_	yes	2	2	_	_			1	1	-		Formariu on MDDM and water format DF No.
									_	_	в			1	_	1			_	Formerly an MRBM regt xmtr (same BE No)
NNITSA SRF ARMY																				
TSK MR/IRBM DIV																				
CP/bnk	_	_	_	3		-	_	***			4			_		4		_		
Rad rovi		-		1	_	_	_	_	_		2	_	2	2	2	3,		_	_	Two masts support FORK REST antennas
Rad xmi	-	-	-		-	_	_	_	_	_	5	-	4	2	_	3	_	_		
Ostrog IRBM Regt CP/bnk*																				
Rad rovr		_	ucon	1	ucon	-	_	-	_	_	2	-	_	_	_	3	_		_	Formerly an MRBM regt CP/bnk (same BE No)
Kivertsy IRBM Regt	_	-		1	_	_	-	_		_	6			_	1	2	-	_	_	Formerly an MRBM regt rcvr (same BE No)
Mobile Base Hq		_	1	_						-	2									T b
Rad sta	_	_	_	1	_		_	_	yes		1		_	_	-	-	-	_		Ten-bay garage Formerly an MRBM regt CP/bnk (same BE No)
														_	_		_		-	Torrierly all Mind Mi regit CP/Dlik (Sanie DE NO)
																				•
utsk IRBM Regt																				
Mobile Base Hq (no BE No)										2	2									

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	CP bnk	-	_	_	3	_	Type A					2	_	_		_	3		_	3	Prob computer bidg near bunkers ucon
	Rad rove	_	_	_	1	_	_	_	_	_	_	4			2	2	3.			_	Two masts support FORK REST antennas
	Rad xmt		_	_	_	_		_	٠	_		7			2		4-	_	_		Occasionally observed, two masts support FORK REST antennas
	Gresk IRBM Regt																				
	Mobile Base Ho	_	1		_	1		-				2	_			_	2.	~~	_		Log periodic atop one mast
	Radcom sta*	_	_	-	1	_	_		_	_	_	1		_	_		1		_	_	Formerly an IRBM regt CP/bnk (same BE No)
	Rad rcvr	-		_	1		_	_	nen-	_	_	2		_	_	1	2	***		_	
	Rad xmti	_	_	_	_					_	_	5		2	_		1	_	_		
	Konkovichi IRBM Regt																				
	Mobile Base Hq*	1	-	Andre .	1	1	-	_	-	_		2	_		_		3		_	_	Formerly an MRBM regt CP/bnk (same BE No)
	Rad xmtr*	_	_	-	-	_	_	_	_	_	_	8		_	•		_	_	_		Formerly an MRBM regt xmtr (same BE No); one prob quadrant anten
	Kozhanovichi IRBM Regt																				
	Mobile Base Hq	1	1	-	_	1	-	-	_		-	2	_	_	_		1		_	_	
	Rad sta*	_	-	-	1	_	_	_	_	_			_		-	_	2	_	_		Formerly an MRBM regt CP/bnk (same BE No)
	Rad rcvr*	_	_	_	1	-				_	_	_		_	_	_	_	-	_	_	Formerly an MRBM regt CP/bnk (same BE No)
	Rad xmtr		_	_	_	_	-		_		-	8	_	_	2		2		_		Formerly an MRBM regt xmtr (same BE No)
	Mozyr IRBM Regt																				
	Mobile Base Hq	1	1	_		_	_	_	_	-	_	2		_	_	_	_	_	_	_	
	Rechitsa IRBM Re																				
	Mobile Base Hq	1	1	_	_					_	_	2	_		energy.	_	_	_	_	_	
P	ROMNY IR/MRBM DIV																				
	CP/bnk	_	_	_	3	_		_	_		3	2	2	_	_			_	_	_	
	Rad rovr	_	_	_	1	_	_	_	_		3			_	_	_	-			3	
	Rad xmt		-	_	_	_	_	_			_		_	_	_	_	_	_	_		Antenna field being upgraded, unid bldgs ucon
	Krolevets IRBM Regt																				
	Mobile Base 1 Hq (no BE No)	_	_	1.	-	1	_	_	_	yes	2	2	_			_		2	_	_	Unid construction
	Mobile Base 2 Hq* (no BE No)	_	_	ucon	_	ucon			_		-		_		_		1000		_	_	Facility in early stages of construction
	Rad sta*	_			1	_	_		-	_		_	_	Time.	-	_	1	_		_	Formerly an MRBM regt CP/bnk (same BE No)
	Rad xmtr	_	_	_		_	_	_	_	-	-	6					2	_	_	_	Formerly an MRBM regt xmtr (same BE No)
	Lebedin IRBM Regt																				
	Mobile Base Hq*				2	1				_	2	_	_	_	1000	_	_	1	-		Unid bldg ucon
	Akhtyrka IRBM Regt																				
	CP/bnk*	_	_	ucon	1	ucon	_	_	_		_	1	_	_	_		2	_	_	_	Formerly an MRBM regt CP/bnk (same 8E No)
	Rcvr/bni				2	_	-	-	-	_		6	_	-	_	1	2	_		_	Formerly an MRBM regt rcvr/bnk (same BE No)
	Mobile Base Hq* (no BE No)	_	_	ucon	-	ucon	-	-		_			**	1 846			_	_	-	_	
	Rad xmtr*		_	_		_	_		***			6				_	5	_	_	_	Formerly an MRBM regt xmtr (same BE No)

*See Comments

All deactivated facilities have been dropped from this table.

Darker shading denotes facilities providing onsite support for mobile bases.

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SS-20 Field Training Areas

A2. The following is a comprehensive list of 91 NPIC-confirmed SS-20 field training areas (FTAs; Table A3). Ninety FTAs have been identified since the first one was detected at Novosibirsk on A field training area is defined as an area outside SS-20 facilities where field-deployed SS-20 associated vehicles or substantial evidence of their presence, such as TEL leveling-jack imprints, have been observed. FTAs may contain drivethrough or drive-in revetments or be positions where no physical preparations are visible. (TSR)

A3. The SS-20 FTA naming system (Figure A8) was coordinated throughout the Intelligence Community and is used when naming new train-

ing areas. The first part of an FTA name is the SSM complex with which the training area is functionally associated. If functional association cannot be determined, the place name of the closest SSM complex is used. The abbreviations FTA and FTA/R indicate unrevetted and revetted field training areas, respectively. A three-digit number represents the chronological order of observation within the SSM complex, with leading zeros to ensure proper order. The next three numbers in the name are the azimuth of the training area from the centerpoint of the SSM complex relative to geographic north. The final part of the name, separated by a slash (/) from the azimuth, is the distance in tenths of nautical miles between the centerpoints of the SSM complex and the field training area. (S/WN)

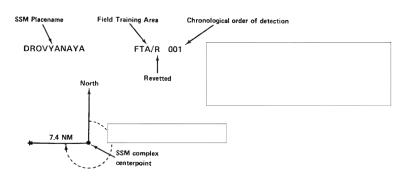
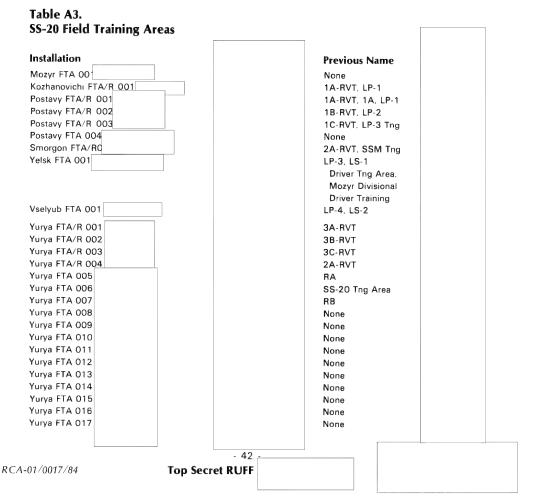


FIGURE A8. FTA NAMING SYSTEM



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Table A4. SRBM Launch Units—SCALEBOARD (SS-12) Brigades

Installation/BE No	Geographic Coordinates	Remarks
CZECHOSLOVAKIA		,
Hranice Bks Maehrisch 002/Hq	49-33-50N	One bn
SCUD Bde	017-44-45E	T 1 .
Libava Unid Mil Constr Site 2	49-36-33N 017-32-45E	Two bn
I FOUNCEAR AND	017-32-456	
LENINGRAD MD	59-53-40N	SCALEBOARD unit
Lomonosov Army Barracks	029-46-40E	SCALLBOARD dim
BELORUSSIAN MD	023 40 402	
Lapichi Army Bks Osipovichi AL 1	53-25-34N	
	028-29-54E	
TURKESTAN MD		
Kurgancha SSM Launch Position 6	39-36-48N	
	065-52-58E	
CENTRAL ASIAN MD		
Sary-Ozek IRBM Launch Site 1	44-31-36N	
	077-46-25E	
TRANS-BAIKAL MD		
Drovyanaya SCALEBOARD Bde Hq/	51-33-04N	
Bks AL 1	113-01-52E	
FAR EAST MD		
Novosysoyevka SSM Launch Position 1	44-12-03N	
	133-26-20E	
SIBERIAN MD		
Novosibirsk Tactical SSM Support Fac	55-16-05N	
	082-59-58E	

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Table A5. SRBM Launch Units—SCUD B (SS-1C) Brigades*

Geographic Coordinate	s Remarks**
	Geographic Coordinate

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Table A5. (Continued)	Geographic		
Installation/BE No	Coordinates	Remarks**	
NORTHERN GROUP OF FORCES (NGF)	F2 24 F0N	H- NOF	
Borne Hq/Army Bks Sulinowo 201	53-34-50N 016-32-30E	Hq NGF	
CENTRAL GROUP OF FORCES (CGF) Turnov Tac SSM Spt Fac/TA 401	50-36-05N	Hq CGF	
	015-08-40E	114 001	
SOUTHERN GROUP OF FORCES (SGF) Dombovar Arty Bks 201	46-21-03N	Hq SGF	
	018-07-14E		
LENINGRAD MD Kuyvozi Tac SSM Bks A Stor AL 5	60-13-58N	MD	
	030-26-37E	MD	
Luga Army Bks S AL 2	58-41-02N 029-50-01E	MD	
Pinozero Tac SSM Bks AL 1	67-19-23N 032-28-57E	6th Army	
BALTIC MD			
Dolgorukovo Tac SSM A Army Bks AL 1	54-24-47N 020-31-13E	11th Gds Army	
BELORUSSIAN MD	E2 29 26N	MD	
Dzerzhinsk Tac SSM Bks SE AL 2/SA-4	53-38-26N 027-12-47E	MD	
Lapichi Tac SSM Bks Tsel AL 2	53-23-49N 028-28-08E	Active (5th Gds Tank Army) and reserve bde	
Pruzhany SSM Fac and Army Bks AL 1	52-30-57N 024-31-04E	28th Army	
Lepel Tac SSM Bks AL 7	54-58-05N	7th Tank Army	
CARPATHIAN MD	028-49-22E		
Nesterov Army Bks AL 1	50-03-06N 023-58-45E	MD	
Yemilchino Army Bks AL 1	50-52-08N	8th Tank Army	
Kremenets Army Bks AL 1	027-48-16E 50-08-59N	13th Army	
ODESSA MD	025-45-40E		
Raukhovka Tac SSM Bks AL 1	47-09-55N 030-48-40E	Active (MD) and reserve bde; reserve bde poss	
		out of garrison	

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Table A5. (Continued)

nstallation/BE No	Geographic Coordinates	Remarks**
erezino Army Bks/Tac SSM Sp Fac AL 1	46-13-51N 029-11-55E	MD
lendery Army Bks Citadel AL 2	46-50-21N	14th Army
Cindery Army Bro Grader AL 2	029-29-02E	14th Anny
IORTH CAUCASUS MD		
Maykop SSM Launch Position 3	44-31-42N	MD
	040-00-45E	
rasnodar Bks AL 8	45-05-25N	MD
RANSCAUCASUS MD	038-59-05E	
Shaumyani Tac SSM Bks AL 1	41-19-30N	MD
Taddinyain Tac 33W BKS AL T	044-44-48E	WID
itepanavan Tac SSM Bks SE AL 1	41-00-22N	7th Gds Army
(044-23-15E	
aku Army Bks AL 16	40-28-45N	4th Army
	049-35-20E	
IEV MD		
remenchug Tac SSM Bks AL 2	49-05-54N 033-25-34E	Active (MD) and poss reserve bde
elaya Tserkov Army Bks AL 2	49-49-38N	
elaya Tserkov Allny Bks AL 2	030-04-56E	Active (1st Gds Army) and poss reserve bde
Grovograd Tac SSM Bks AL 3	48-32-29N	Active (6th Tank Army)
	032-15-57E	and poss reserve bde
AOSCOW MD		
huya Army Bks East AL 1	56-50-29N	Current SRBM unknown
	041-22-56E	
URKESTAN MD		
layram-Ali Tac SSM SCUD Bks AL 1/TA 1	37-36-20N	Active (MD) and reserve bd
CENTRAL ASIAN MD	062-10-32E	
	EO 22 4EN	MD
emipalatinsk AB AL 1/Hq Arty Div/SA-8	50-23-15N 080-10-23E	MD
RANS-BAIKAL MD		
llan-Ude Army Hq AL 1	51-53-45N	Unlocated
	107-31-33E	
lerchinsk Tac SSM Bks AL 1	51-59-15N	36th Army
	116-35-26E	
AR EAST MD		
irobidzhan MRD Hq/Bks AL 1	48-47-01N	
elogorsk SCUD Bde Hq/AL 5	132-53-05E	25th Armir
elogorac acon pae ud/Wr a	50-55-04N 128-22-24E	35th Army
nastasyevka Army Bks AL 3	48-36-02N	
	135-35-49E	
passk-Dainiy SCUD Bde Hq SSM	44-35-26N	
Bks AL 3	132-49-13E	
azdolnoye SCUD Bde Bks AL-1/ SA-4 Spt	43-31-23N 131-54-19E	5th Army
BERIAN MD	131-34-135	
rasnoyarsk Tac SSM Fac AL 9	56 10 42N	MD
TOUR THE SOLVE THE AL 9	56-18-43N 093-00-37E	MD
rasnoyarsk Army Bks AL 2/	56-03-02N	
TA 1	092-55-51E	

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Table A6. SRBM Schools

Installation/BE No	Geographic Coordinates	Function	Remarks
Kazan Army School	55-47-50N	School	Kazan Higher Military
	049-10-50E		Engineer School
Vysokaya Army BKS AL 1	55-57-36N	Training area	SCALEBOARD/SCUD/FROG
	049-20-32E		officer tng
Saratov Higher Military	51-34-16N	School	Saratov Higher Military
Command School	046-00-55E		Command School
Ivanovsky Army Bks AL 1	51-21-27N	Training area	SCALEBOARD/SCUD/FROG
	45-37-22E		command tng
Kolomna Tac SSM Sup Fac	50-02-39N	Training area	Kolomna Higher Artillery Command
	038-51-40E		School, rear services
Luga Army Bks AL 1	58-45-06N		SCALEBOARD/SCUD/SS-21/FROG
	029-49-26E		specialist tng
Kamenka Military Installation	53-11-40N		SCALEBOARD specialist tng
,	044-03-30E		
Staryy Medved Army Bks AL 1	58-18-19N		SCUD specialist tng
	030-30-34E		
Ostrogozhsk Army Bks	50-52-08N		Driver tng
	039-03-38E		

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Table A7. SRBM Logistics—Central Facilities

Installation/BE No	Geographic Coordinates
MISSILE AIRFRAME FACILITIES	
Rybinsk Tac SSM Spt Fac	58-01-15N 038-52-48E
Mozhaysk Prob Tac SSM Spt Fac	55-28-40N 036-03-15E
Kirzhach Tac SSM Spt Fac	56-06-10N 038-44-55E
Dzerzhinsk Tac SSM Spt Fac	56-15-27N 043-13-58E
ipetsk Tac SSM Spt Fac	52-31-11N 039-45-01E
Balakleya Tac SSM Spt Fac	49-28-21N 036-52-25E
WEAPONS REPAIR BASES	
Balakleya Ordnance Depot Central	49-27-38N 036-50-58E
Moskva Ord Dpo DO 1	55-51-22N 037-42-33E
RESERVE ARMAMENT AND EQUIPMENT	DEPOTS
Bologoye Tac SSM Spt Fac	57-43-49N 033-58-17E
Irkutsk Ord Dpo Batareynaya DO 1	52-22-57N 104-09-25E

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Table A8.
SRBM Logistics—GOF/MD/Front Materiel Support

Installation /DF No.	Geographic		
Installation/BE No	Coordinates	Missile-Technical Unit	Function (Subordination
NORTHERN CROUP OF FORCE	S (NICE)		
		EPRTR	DTP (Ua NCT)
Borne Tac SSM Spt Fac	53-34-57N 016-31-00E	FPRTB	RTB (Hq NGF)
Borne Tac SSM Spt Fac	53-34-57N	FPRTB APRTB	RTB (Hq NGF) RTB (Army)
Borne Tac SSM Spt Fac Pstraze Army Barracks 210	53-34-57N 016-31-00E 51-26-44N		
Borne Tac SSM Spt Fac Pstraze Army Barracks 210 LENINGRAD MD Parakhino-Poddubye Tac SSM	53-34-57N 016-31-00E 51-26-44N		
Borne Tac SSM Spt Fac Pstraze Army Barracks 210 LENINGRAD MD Parakhıno-Poddubye Tac SSM Spt Fac	53-34-57N 016-31-00E 51-26-44N 015-33-56E 58-28-58N 033-29-25E	APRTB	RTB (Army)
Borne Tac SSM Spt Fac Pstraze Army Barracks 210 LENINGRAD MD Parakhino-Poddubye Tac SSM Spt Fac Kuyvozi Tac SSM Bks A Stor	53-34-57N 016-31-00E 51-26-44N 015-33-56E 58-28-58N 033-29-25E 60-13-58N	APRTB	RTB (Army) RTB (MD/front)
Borne Tac SSM Spt Fac Pstraze Army Barracks 210 LENINGRAD MD Parakhıno-Poddubye Tac SSM Spt Fac Kuyvozı Tac SSM Bks A Stor AL 5	53-34-57N 016-31-00E 51-26-44N 015-33-56E 58-28-58N 033-29-25E 60-13-58N 030-26-37E	APRTB FPRTB	RTB (Army) RTB (MD/front) RTB (MD/front), SCUD bde
Borne Tac SSM Spt Fac Pstraze Army Barracks 210 LENINGRAD MD Parakhıno-Poddubye Tac SSM Spt Fac Kuyvozı Tac SSM Bks A Stor AL 5	53-34-57N 016-31-00E 51-26-44N 015-33-56E 58-28-58N 033-29-25E 60-13-58N	APRTB	RTB (Army) RTB (MD/front)
Borne Tac SSM Spt Fac Pstraze Army Barracks 210 LENINGRAD MD Parakhino-Poddubye Tac SSM Spt Fac Kuyvozi Tac SSM Bks A Stor AL 5 Novaya Ladoga Tac SSM Spt Fac Kandalaksha Tac SSM Bks A Stor	53-34-57N 016-31-00E 51-26-44N 015-33-56E 58-28-58N 033-29-25E 60-13-58N 030-26-37E 60-05-20N	APRTB FPRTB	RTB (Army) RTB (MD/front) RTB (MD/front), SCUD bde
Borne Tac SSM Spt Fac Pstraze Army Barracks 210 LENINGRAD MD Parakhıno-Poddubye Tac SSM Spt Fac Kuyvozı Tac SSM Bks A Stor AL 5 Novaya Ladoga Tac SSM Spt Fac	53-34-57N 016-31-00E 51-26-44N 015-33-56E 58-28-58N 033-29-25E 60-13-58N 030-26-37E 60-05-20N 032-19-05E	APRTB FPRTB PRTB-ORPD	RTB (Army) RTB (MD/front) RTB (MD/front), SCUD bde RTB (Army)
Borne Tac SSM Spt Fac Pstraze Army Barracks 210 LENINGRAD MD Parakhino-Poddubye Tac SSM Spt Fac Kuyvozi Tac SSM Bks A Stor AL 5 Novaya Ladoga Tac SSM Spt Fac Kandalaksha Tac SSM Bks A Stor AL 5	53-34-57N 016-31-00E 51-26-44N 015-33-56E 58-28-58N 033-29-25E 60-13-58N 030-26-37E 60-05-20N 032-19-05E 67-12-03N	APRTB FPRTB PRTB-ORPD	RTB (Army) RTB (MD/front) RTB (MD/front), SCUD bde RTB (Army)
Borne Tac SSM Spt Fac Pstraze Army Barracks 210 LENINGRAD MD Parakhino-Poddubye Tac SSM Spt Fac Kuyvozi Tac SSM Bks A Stor AL 5 Novaya Ladoga Tac SSM Spt Fac Kandalaksha Tac SSM Bks A Stor AL 5 BALTIC MD	53-34-57N 016-31-00E 51-26-44N 015-33-56E 58-28-58N 033-29-25E 60-13-58N 030-26-37E 60-05-20N 032-19-05E 67-12-03N 032-19-37E	APRTB FPRTB PRTB-ORPD	RTB (Army) RTB (MD/front) RTB (MD/front), SCUD bde RTB (Army)
Borne Tac SSM Spt Fac Pstraze Army Barracks 210 LENINGRAD MD Parakhino-Poddubye Tac SSM Spt Fac Kuyvozi Tac SSM Bks A Stor AL 5 Novaya Ladoga Tac SSM Spt Fac Kandalaksha Tac SSM Bks A Stor AL 5 BALTIC MD Kaliningrad Tac SSM Spt Fac	53-34-57N 016-31-00E 51-26-44N 015-33-56E 58-28-58N 033-29-25E 60-13-58N 030-26-37E 60-05-20N 032-19-05E 67-12-03N 032-19-37E	APRTB FPRTB FPRTB-ORPD PRTB-ORPD	RTB (Army) RTB (MD/front). SCUD bde RTB (Army) RTB (6th Army) RTB (MD/front)
Borne Tac SSM Spt Fac Pstraze Army Barracks 210 LENINGRAD MD Parakhino-Poddubye Tac SSM Spt Fac Kuyvozi Tac SSM Bks A Stor AL 5 Novaya Ladoga Tac SSM Spt Fac Kandalaksha Tac SSM Bks A Stor AL 5 BALTIC MD Kaliningrad Tac SSM Spt Fac	53-34-57N 016-31-00E 51-26-44N 015-33-56E 58-28-58N 033-29-25E 60-13-58N 030-26-37E 60-05-20N 032-19-05E 67-12-03N 032-19-37E 54-35-25N 020-12-46E 55-46-30N	APRTB FPRTB FPRTB PRTB-ORPD PRTB-ORPD	RTB (Army) RTB (MD/front) RTB (MD/front). SCUD bde RTB (Army) RTB (6th Army)
Borne Tac SSM Spt Fac Pstraze Army Barracks 210 LENINGRAD MD Parakhino-Poddubye Tac SSM Spt Fac Kuyvozi Tac SSM Bks A Stor AL 5 Novaya Ladoga Tac SSM Spt Fac Kandalaksha Tac SSM Bks A Stor AL 5 BALTIC MD Kaliningrad Tac SSM Spt Fac	53-34-57N 016-31-00E 51-26-44N 015-33-56E 58-28-58N 033-29-25E 60-13-58N 030-26-37E 60-05-20N 032-19-05E 67-12-03N 032-19-37E 54-35-25N 020-12-46E 55-46-30N 023-36-15E	APRTB FPRTB PRTB-ORPD PRTB-ORPD FPRTB	RTB (Army) RTB (MD/front). SCUD bde RTB (Army) RTB (6th Army) RTB (MD/front) RTB (MD/front)
Borne Tac SSM Spt Fac Pstraze Army Barracks 210 LENINGRAD MD Parakhino-Poddubye Tac SSM Spt Fac Kuyvozi Tac SSM Bks A Stor AL 5 Novaya Ladoga Tac SSM Spt Fac Kandalaksha Tac SSM Bks A Stor AL 5 BALTIC MD Kaliningrad Tac SSM Spt Fac	53-34-57N 016-31-00E 51-26-44N 015-33-56E 58-28-58N 033-29-25E 60-13-58N 030-26-37E 60-05-20N 032-19-05E 67-12-03N 032-19-37E 54-35-25N 020-12-46E 55-46-30N	APRTB FPRTB FPRTB-ORPD PRTB-ORPD	RTB (Army) RTB (MD/front). SCUD bde RTB (Army) RTB (6th Army) RTB (MD/front)
Borne Tac SSM Spt Fac Pstraze Army Barracks 210 LENINGRAD MD Parakhino-Poddubye Tac SSM Spt Fac Kuyvozi Tac SSM Bks A Stor AL 5 Novaya Ladoga Tac SSM Spt Fac Kandalaksha Tac SSM Bks A Stor AL 5 BALTIC MD Kaliningrad Tac SSM Spt Fac Radviliskis Tac SSM Spt Fac	53-34-57N 016-31-00E 51-26-44N 015-33-56E 58-28-58N 033-29-25E 60-13-58N 030-26-37E 60-05-20N 032-19-05E 67-12-03N 032-19-37E 54-35-25N 020-12-46E 55-46-30N 023-36-15E 55-16-21N	APRTB FPRTB PRTB-ORPD PRTB-ORPD FPRTB	RTB (Army) RTB (MD/front). SCUD bde RTB (Army) RTB (6th Army) RTB (MD/front) RTB (MD/front)
Borne Tac SSM Spt Fac Pstraze Army Barracks 210 LENINGRAD MD Parakhino-Poddubye Tac SSM Spt Fac Kuyvozi Tac SSM Bks A Stor AL 5 Novaya Ladoga Tac SSM Spt Fac Kandalaksha Tac SSM Bks A Stor AL 5 BALTIC MD Kaliningrad Tac SSM Spt Fac Radviliskis Tac SSM Spt Fac Redainiai Tac SSM Spt Fac	53-34-57N 016-31-00E 51-26-44N 015-33-56E 58-28-58N 033-29-25E 60-13-58N 030-26-37E 60-05-20N 032-19-05E 67-12-03N 032-19-37E 54-35-25N 020-12-46E 55-46-30N 023-36-15E 55-16-21N	APRTB FPRTB PRTB-ORPD PRTB-ORPD FPRTB	RTB (Army) RTB (MD/front) RTB (MD/front), SCUD bde RTB (Army) RTB (6th Army) RTB (MD/front) RTB (MD/front) RTB (MD/front)
Kuyvozi Tac SSM Bks A Stor AL 5 Novaya Ladoga Tac SSM Spt Fac Kandalaksha Tac SSM Bks A Stor	53-34-57N 016-31-00E 51-26-44N 015-33-56E 58-28-58N 033-29-25E 60-13-58N 030-26-37E 60-05-20N 032-19-05E 67-12-03N 032-19-37E 54-35-25N 020-12-46E 55-46-30N 023-36-15E 55-16-21N 023-52-00E	APRTB FPRTB FPRTB-ORPD PRTB-ORPD FPRTB FPRTB FPRTB	RTB (Army) RTB (MD/front). SCUD bde RTB (Army) RTB (6th Army) RTB (MD/front) RTB (MD/front)
Borne Tac SSM Spt Fac Pstraze Army Barracks 210 LENINGRAD MD Parakhino-Poddubye Tac SSM Spt Fac Kuyvozi Tac SSM Bks A Stor AL 5 Novaya Ladoga Tac SSM Spt Fac Kandalaksha Tac SSM Bks A Stor AL 5 BALTIC MD Kaliningrad Tac SSM Spt Fac Radviliskis Tac SSM Spt Fac Kedainiai Tac SSM Spt Fac	53-34-57N 016-31-00E 51-26-44N 015-33-56E 58-28-58N 033-29-25E 60-13-58N 030-26-37E 60-05-20N 032-19-05E 67-12-03N 032-19-37E 54-35-25N 020-12-46E 55-46-30N 023-36-15E 55-16-21N 023-52-00E	APRTB FPRTB FPRTB-ORPD PRTB-ORPD FPRTB FPRTB FPRTB	RTB (Army) RTB (MD/front) RTB (MD/front), SCUD bde RTB (Army) RTB (6th Army) RTB (MD/front) RTB (MD/front) RTB (MD/front)
Borne Tac SSM Spt Fac Pstraze Army Barracks 210 LENINGRAD MD Parakhino-Poddubye Tac SSM Spt Fac Kuyvozi Tac SSM Bks A Stor AL 5 Novaya Ladoga Tac SSM Spt Fac Kandalaksha Tac SSM Bks A Stor AL 5 BALTIC MD Kaliningrad Tac SSM Spt Fac Radviliskis Tac SSM Spt Fac SELORUSSIAN MD Bronnaya Gora Tac SSM Spt Fac	53-34-57N 016-31-00E 51-26-44N 015-33-56E 58-28-58N 033-29-25E 60-13-58N 030-26-37E 60-05-20N 032-19-05E 67-12-03N 032-19-37E 54-35-25N 020-12-46E 55-46-30N 023-36-15E 55-16-21N 023-52-00E	APRTB FPRTB FPRTB-ORPD PRTB-ORPD FPRTB FPRTB FPRTB PRTB-ORPD	RTB (Army) RTB (MD/front) RTB (MD/front). SCUD bde RTB (Army) RTB (Gth Army) RTB (MD/front) RTB (MD/front) RTB (11th GDS Army) RTB (MD/front) RTB (MD/front)
Borne Tac SSM Spt Fac Pstraze Army Barracks 210 LENINGRAD MD Parakhino-Poddubye Tac SSM Spt Fac Kuyvozi Tac SSM Bks A Stor AL 5 Novaya Ladoga Tac SSM Spt Fac Kandalaksha Tac SSM Bks A Stor AL 5 BALTIC MD Kaliningrad Tac SSM Spt Fac Radviliskis Tac SSM Spt Fac SELORUSSIAN MD Bronnaya Gora Tac SSM Spt Fac	53-34-57N 016-31-00E 51-26-44N 015-33-56E 58-28-58N 033-29-25E 60-13-58N 030-26-37E 60-05-20N 032-19-05E 67-12-03N 032-19-37E 54-35-25N 020-12-46E 55-46-30N 023-36-15E 55-16-21N 023-52-00E	APRTB FPRTB FPRTB-ORPD PRTB-ORPD FPRTB FPRTB FPRTB PRTB-ORPD	RTB (Army) RTB (MD/front) RTB (MD/front), SCUD bde RTB (Army) RTB (6th Army) RTB (MD/front) RTB (MD/front) RTB (11th GDS Army) RTB (MD/front) RTB (MD/front) RTB (MD/front)
Borne Tac SSM Spt Fac Pstraze Army Barracks 210 LENINGRAD MD Parakhino-Poddubye Tac SSM Spt Fac Kuyvozi Tac SSM Bks A Stor AL 5 Novaya Ladoga Tac SSM Spt Fac Kandalaksha Tac SSM Bks A Stor AL 5 BALTIC MD Kaliningrad Tac SSM Spt Fac Radviliskis Tac SSM Spt Fac SELORUSSIAN MD Bronnaya Gora Tac SSM Spt Fac	53-34-57N 016-31-00E 51-26-44N 015-33-56E 58-28-58N 033-29-25E 60-13-58N 030-26-37E 60-05-20N 032-19-05E 67-12-03N 032-19-37E 54-35-25N 020-12-46E 55-46-30N 023-36-15E 55-16-21N 023-52-00E	APRTB FPRTB FPRTB-ORPD PRTB-ORPD FPRTB FPRTB FPRTB PRTB-ORPD	RTB (Army) RTB (MD/front) RTB (MD/front). SCUD bde RTB (Army) RTB (Gth Army) RTB (MD/front) RTB (MD/front) RTB (11th GDS Army) RTB (MD/front) RTB (MD/front)

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Table A8. (Continued)

Installation/BE No	Geographic Coordinates	Missile-Technical Unit	Function (Subordination*)
Dzerzhinsk Tac SSM Bks AL 2/ SA 4	53-38-26N 027-12-47E	FPRTB, poss ORPD	MD/front SCUD bde
Lepel Tac SSM Spt Fac	54-58-17N 028-47-00E		RTB (7th Tank Army)
Lepel Tac SSM Bks AL 7	54-58-05N 028-49-22E	PRTB-ORPD	(7th Tank Army)
Osipovichi Tac SSM Spt Fac	53-19-25N 028-48-05E		RTB (5th Gds Tank Army)
Osipovichi Army Bks NE AL 1 CARPATHIAN MD	53-18-18N 028-39-28E	PRTB-ORPD	(5th Gds Tank Army)
Shepetovka Tac SSM Spt Fac	50-14-45N 026-59-10E	FPRTB	RTB (MD/front)
Vinnitsa Tac SSM Spt Fac	49-24-16N 028-30-52E	FPRTB	RTB (MD/front)
/ladimir-Volynskiy Tac SSM Spt	50-47-55N 024-16-30E		RTB (13th Army)
Vladimir Volynskiy Tac SSM Bks AL 3	50-51-27N 024-18-30E	PRTB-ORPD	(13th Army)
Staro-Konstantinov 1 Nuc Wpn Str	49-40-44N 027-14-54E		RTB (8th Tank Army)
Staro Konstantinov Tac SSM Bks AL 5	49-45-40N 027-10-09E	PRTB-ORPD	(8th Tank Army)
Sambor Tac SSM Spt Fac	49-28-18N 023-15-07E	PRTB-ORPD	(38th Army)
Jzhgorod Tac SSM Spt Fac	48-36-13N 022-21-50E	PRTB	(Army)
DDESSA MD			
Kolbasna Tac SSM Spt Fac	47-45-37N 029 12-47E	FPRTB-ORPD	RTB (MD/front), SCUD bde
Balta Army Bks AL 1	47-56-42N 029-36-11E	ORPD	(MD/front)
/eselyy Kut Tac SSM Spt Fac	46-04-32N 029-17-27E	PRTB	RTB (Army)
Sarata Tac SSM Spt Fac	46-03-30N 029-39-15E	PRTB	RTB (14th Army)
NORTH CAUCASUS MD			
Mozdok Tac SSM Spt Fac	43-44-37N 044-32-08E	FPRTB	RTB (MD/front)
Tikhoretsk Tac SSM Spt Fac	45-53-07N 040-02-35E	none	RTB (Army)
TRANSCAUCASUS MD			
Kilyazı Tac SSM Spt Fac	40-49-06N 049-20-48E	FPRTB	RTB (MD/front)
Ibilisi Tac SSM Bks Koda AL 4	41-34-18N 044-46-43E	ORPD	(MD/front)
Stepanavan Tac SSM Spt Fac	40-58-21N 044-23-30E	PRTB	RTB (7th Gds Army)
Baku Army Bks AL 19	40-42-29N 049-28-31E	PRTB	(4th Army)
KIEV MD			
ozovaya Tac SSM Spt Fac	48-54-33N 036-21-44E	FPRTB	RTB (MD/front)
Bogdanovka Tac SSM Spt Fac	48-46-41N 032-30-29E	FPRTB	RTB (MD/front)
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Installation/BE No	Geographic Coordinates	Missile-Technical Unit	F (C. L. H. et
IIIStaliation/ DE 140	Coordinates	Missie-Technical Unit	Function (Subordination*)
Kirovograd Tac SSM Spt Fac	48-31-59N 032-27-54E	PRTB-ORPD	RTB (6th Tank Army)
Uman Tac SSM Spt Fac	48-44-03N 030-03-08E		RTB (1st Gds Army)
MOSCOW MD			
Karachev Tac SSM Spt Fac	53-08-26N 034-56-50E	FPRTB	RTB (MD/front)
TURKESTAN MD			
Mary Tac SSM Spt Fac	37-34-22N 061-47-40E		RTB (MD/front)
Mary SAM Spt Fac	37-28-02N 062-03-54E	FPRTB-ORPD	(MD/front)
Surgancha SSM Position 6	39-36-48N 065-52-58E		RTB (MD/front), SCALEBOARD bo
lebit-Dag Tac SSM Spt Fac	39-26-08N 054-26-21E		RTB (Army)
Nebit-Dag Tac SSM Bks AL 2	39-29-52N 054-21-35E	PRTB	(Army)
CENTRAL ASIAN MD			
Arys Tac SSM Spt Fac	42-28-04N 068-49-58E	FPRTB	RTB (MD/front)
Sary-Ozek IRBM Launch Site 1	44-31-36N 077-46-25E	FPRTB	RTB (MD/front), SCALEBOARD bo
Sapchagay Tac SSM Spt Fac/	43-54-18N 077-00-58E		RTB (Army)
i Army Bks AL 1	43-52-33N 077-02-11E	PRTB-ORPD	(Army)
emipalatinsk AB AL 1/Hq Arty Div/SA-8	50-23-15N 080-10-23E	PRTB	
RANS-BAIKAL MD			
lan-Ude Tac SSM Spt Fac	51-50-16N 107-48-23E	FPRTB	RTB (MD/front)
rovyanaya SSM Launch Position 2	51-24-59N 113-04-38E		RTB (MD/front), SCALEBOARD bde
rovyanaya SCALEBOARD Bde Hq/Bks AL 1	51-33-04N 113-01-52E	FPRTB	(MD/front), SCALEBOARD bde
yakhta Tac SSM Spt Fac	50-23-33N 106-24-07E	ORPD	RTB (29th Army)
yakhta Army Bks N AL 2	50-22-28N 106-25-24E	PRTB	(29th Army)
ga Tac SSM Spt Fac	51-04-31N 115-10-22E	PRTB-ORPD	RTB (36th Army)
lan-Ude Army Hq AL 1	51-53-45N 107-31-33E	PRTB	
AR EAST MD			
avitinsk Tac SSM Spt Fac	50-09-37N 129-26-53E	FPRTB	RTB (MD/front)
engon Tac SSM Spt Fac	50-01-04N 136-27-07E	FPRTB	RTB (MD/front)
ovosysoyevka SSM Launch Position 1	44-12-03N 133-26-20E	FPRTB	RTB (MD/front), SCALEBOARD bde
elogorsk SCUD Bde Hq/AL 5	50-55-04N 128-22-24E	PRTB-ORPD	RTB (35th Army)
asnyy Kut Tac SSM Spt Fac	44-31-52N 132-49-55E	PRTB-ORPD	RTB (Army)
ssuriysk Tac SSM Spt Fac	43-41-39N 131-59-00E		RTB (5th Army)
azdolnoye SCUD Bde Bks AL 1/	43-31-23N	PRTB	(5th Army)

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Table A8. (Continued)

Installation/BE No	Geographic Coordinates	Missile-Technical Unit	Function (Subordination*)
Maykhe Tac SSM Spt Fac	43-26-27N 132-27-29E	PRTB-ORPD	RTB (Army)
Listvenichnoye Tac SSM Bks AL 1	46-51-51N 142-46-27E		RTB (Army)
Petropavlovsk Tac SSM Spt Fac	53-05-53N 158-43-12E		RTB
SIBERIAN MD			
Novosibirsk SSM Launch Position 1	55-18-50N 083-01-52E		RTB (MD/front), SCALEBOARD be
Novosibirsk Tac SSM Spt Fac	55-16-05N 082-59-58E	FPRTB	(MD/front), SCALEBOARD bde
(rasnoyarsk Tac SSM Fac AL 9	56-18-43N 093-00-37E	FPRTB	(MD/front). SCUD bde
(rasnoyarsk Army Bks AL 2/TA 1	56-03-02N 092-55-51E	PRTB	(Army)
URAL MD			
Sverdlovsk Tac SSM Spt Fac	56-59-14N 060-46-48E	FPRTB	RTB (MD/front)
VOLGA MD			
Syzran Tac SSM Spt Fac	53-08-54N 048-21-18E	FPRTB	RTB (MD/front)
Kamenka Military Installation	53-11-40N 044-03-30E	PRTB	Cadre
*Designators extracted from NDHQ Ottaw This table is TOP SECRET		oviet Ground Forces, 1983, 29 Sep	83 (TOP SECRET

Table A9. SRBM Logistics—GOF/MD/Front Weapons Repair Bases

Installation/BE No	Geographic Coordinates	Installation/BE No	Geographic Coordinates
		TRANSCAUCASUS MD	
		Tbilisi Munitions Ord Stor	41-42-33N 044-49-37E
		KIEV MD	
LENINGRAD MD		Nezhin Ord and Ammo Dpo SW DO 1/DA 1	51 01 481
Leningrad Veh Stor A Maint Dpo	59-59-11N		031-52-058
	030 22 42E	MOSCOW MD	
BALTIC MD		Pavloskaya Sloboda Ord Repair Fac	55 49 001
Kaliningrad Ord Rpr P Rothenstein DO 2	54-44 34N		037 05 008
	020-32-57E	TURKESTAN MD	
BELORUSSIAN MD		Tashkent Ord Dpo Urta Aul DO 1	41-11-42
Minsk Ord Dpo SE DO 1	53-51-46N		069 07 50
	027-38-16E	TRANS-BAIKAL MD	
CARPATHIAN MD		Staraya Kuka Dpo Ord SW 1 DM SAM	51 44 371
Shepetovka Opd SAM Dpo DO 1	50-10 58N		113 01 218
	027-04-59E	FAR EAST MD	
ODESSA MD		Khabarovsk Arty Engr Opo	48 21 421
Voznesensk Ord Dpo DO 1	47 35 42N		135-02-186
	031 20 14E		
NORTH CAUCASUS MD			
Novocherkassk Ord Dpo DO 1	47 24 38N		
	040-04 15E		

This table is SECRET WNINTH.



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